SOURCE CONTROL EVALUATION REPORT

Former Automatic Vending Company 5001 North Lagoon Avenue Portland, Oregon DEQ ECSI No. 1430

For Oregon Department of Environmental Quality September 1, 2022

Project: BCSAmerica-1-02





September 1, 2022

Oregon Department of Environmental Quality Northwest Region 700 NE Multnomah Street, Suite 600 Portland, OR 97232

Attention: Rob Hood

Source Control Evaluation Report

Former Automatic Vending Company 5001 North Lagoon Avenue Portland, Oregon DEQ ECSI No. 1430

Project: BCSAmerica-1-02

NV5 is pleased to submit this Source Control Evaluation Report for the former Automatic Vending Company site located at 5001 North Lagoon Avenue in Portland, Oregon (subject property). This report is submitted in accordance with the requirement to perform a source control evaluation as part of subject property closure within the Oregon Department of Environmental Quality's Voluntary Cleanup Program.

Please call if you have questions concerning this submittal.

Sincerely,

NV5

Mike F. Coenen, P.E. Principal Engineer

cc: John Jansen, BCS America LLC

JKP:EAH:MFC:kt
Attachments
One copy submitted

Document ID: BCSAmerica-1-02-090122-envr-SCE.docx

© 2022 NV5. All rights reserved.

TABLE OF CONTENTS

ACRONYMS AND ABBREVIATIONS

1.0	INTRO	DDUCTION	1
	1.1	Purpose and Objectives	1
2.0	SUBJECT PROPERTY DESCRIPTION		
	2.1	Subsurface Conditions	2
3.0	PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS		
	3.1 UST Decommissioning		3
	3.2	PEMCO	3
	3.3	K&S Environmental Phase I ESA	4
	3.4	K&S Environmental Investigation and Hoist Removal	4
	3.5	GeoDesign, Inc.	4
4.0	STORMWATER CONVEYANCE SYSTEM		
5.0	POTENTIAL SOURCES AND CONTAMINANTS OF POTENTIAL CONCERN		
	5.1	Potential Contaminant Sources	7
	5.2	Evaluation of Pathways to the Willamette River	7
	5.3	Contaminants of Potential Concern	8
6.0	STORMWATER MANAGEMENT PRACTICES		
7.0	CLEANING, SAMPLING, AND STORMWATER IMPROVEMENT ACTIVITIES		
	7.1	Catch Basin Sediment Sampling	10
	7.2	Stormwater Conveyance System Cleaning	11
	7.3	Initial Stormwater Compliance Sampling	12
	7.4	Stormwater System Improvements and Catch Basin Replacement	13
	7.5	Supplemental Stormwater Compliance Sampling	13
8.0	DATA SUMMARY		
	8.1	Groundwater	14
	8.2	Catch Basin Sediment	15
	8.3	Stormwater	17
	8.4	QA/QC	19
9.0	SOURCE CONTROL EVALUATION		
	9.1	Catch Basin Sediment	20
	9.2	Stormwater	22
	9.3	Groundwater	23
10.0	FINDII	NGS AND CONCLUSIONS	24
11.0	LIMIT	ATIONS	26
REFER	RENCES		28

NIV15

TABLE OF CONTENTS

FIGURES	
Vicinity Map	Figure 1
Soil Concentrations	Figure 2
Soil Concentrations - Shop Detail	Figure 3
Groundwater Concentrations	Figure 4
Stormwater Conveyance System - Original	Figure 5
Stormwater Conveyance System - Updated	Figure 6
TABLES	
Summary of Sediment Sample Chemical Analytical Results	Table 1
Summary of Stormwater Sampling Analytical Results	Tables 2 - 3
APPENDICES	
Appendix A	
Summary of Soil and Groundwater Chemical Analytical Results	
Appendix B	
Historical Permits and Blueprints	
Appendix C	
Disposal Receipt	
Appendix D	
Stormwater Sampling Event Hydrographs	
Appendix E	
Comparison of Stormwater Sample Analytical Results to Typical Industrial Sites	
Appendix F	
Chemical Analytical Program	F-1
Laboratory Analytical Reports	

NV5

F-1

ACRONYMS AND ABBREVIATIONS

BEHP bis(2-ethylhexyl)phthalate BGS below ground surface

BMP best management practices

BS blank spike

BSD blank spike duplicate COI compound of interest

COPC chemical of potential concern or contaminant of potential concern

cPAH carcinogenic polycyclic aromatic hydrocarbon

CUL Cleanup Level DCE dichloroethene

DDD dichlorodiphenyldichloroethane
DDE dichlorodiphenyldichloroethylene
DDT dichlorodiphenyltrichloroethane

DEQ Oregon Department of Environmental Quality
ECSI Environmental Cleanup Site Information
EPA U.S. Environmental Protection Agency
EPH extractable petroleum hydrocarbon
ESA Environmental Site Assessment

ICP-MS inductively coupled plasma mass spectrometry

I.D. identification

JSCS Joint Source Control Strategy

LUST Leaking Underground Storage Tank
MCPA 4-methyl-2-chlorophenoxyacetic acid

MCPP 2-(2-methyl-4-chlorophenoxy) propionic acid

MDL method detection limit mg/kg milligrams per kilogram MRL method reporting limit

MS matrix spike

MSD matrix spike duplicate
MTBE methyl tertiary butyl ether

NC not calculated
NE not established
NFA No Further Action

not detected compound not detected at a concentration equal to or greater than the

laboratory method reporting limit or reporting detection limit

PAH polycyclic aromatic hydrocarbon

PCB polychlorinated biphenyl

PCE tetrachloroethene
PCP pentachlorophenol
PFA perfluoroalkoxy
pg/g picograms per gram
QA quality assurance
QC quality control

RBC risk-based concentration

REC recognized environmental condition

RPD relative percent difference
SCE Source Control Evaluation
SIM selective ion monitoring
SLV screening level value

SVOC semi-volatile organic compound

TCDD tetrachlorodibenzodioxin

TCE trichloroethene

TEQ toxicity equivalent quotient

TMB trimethylbenzene

TPH total petroleum hydrocarbon(s)

TSS total suspended solids µg/kg micrograms per kilogram micrograms per liter μg/L USGS U.S. Geological Survey UST underground storage tank VCP Voluntary Cleanup Program VOC volatile organic compound VPH volatile petroleum hydrocarbon

1.0 INTRODUCTION

This SCE report is submitted on behalf of BCS America LLC in accordance with the DEQ VCP requirements for the former Automatic Vending Company site located at 5001 North Lagoon Avenue in Portland, Oregon (subject property).

The SCE components described herein were completed in general accordance with the work plans submitted to DEQ (GeoDesign, Inc., 2021a,b,c,d), which were approved by DEQ. Specifically, this report presents an SCE that includes a discussion of the collection/conveyance line assessment, cleaning and modifications, and verification stormwater sampling in accordance with DEQ's requirements for this evaluation. This report also summarizes soil and groundwater assessments and remediation activities conducted at the subject property.

Acronyms and abbreviations used herein are defined above, immediately following the Table of Contents.

1.1 PURPOSE AND OBJECTIVES

The purpose of this SCE report is to provide the results of the identification, evaluation, and control of historical sources of contamination on the subject property with the potential to impact stormwater and groundwater discharging to the Willamette River. This SCE was conducted in general accordance with DEQ's *Guidance for Evaluating the Stormwater Pathway at Upland Sites*, dated January 2009 (updated October 2010); DEQ/EPA's *Portland Harbor Joint Source Control Strategy*, dated December 2005; and the *EPA Record of Decision, Portland Harbor Superfund Site*, dated January 2017. This SCE is intended to provide supporting documentation to assist DEQ in completing an uplands source control decision for the subject property to satisfy the DEQ JSCS SCE requirements.

2.0 SUBJECT PROPERTY DESCRIPTION

The subject property includes Tax Lot 700 of Multnomah County Tax Map 1N1E20A. The subject property is located on Swan Island in the Willamette River. Swan Island was connected to the mainland sometime between 1927 and 1940 using dredge material reportedly originating from the Willamette River. The Portland Airport reportedly occupied Swan Island from 1927 through 1940 and it appeared that a runway may have historically occupied a portion of the subject property. In 1944, the subject property consisted of a parking lot with a building near the western side of the subject property. The current warehouse building was constructed on the subject property in 1963, with additions constructed in 1969 and 1978. The warehouse building consists of an approximately 51,100-square-foot, metal-framed structure with a slab-on-grade foundation that is occupied by warehouse and office space.

The shop building located on the southwestern portion of the subject property was constructed in 1973/74 and consists of an approximately 1,200-square-foot, metal structure with a slab-ongrade foundation.

According to a Phase I ESA (K&S Environmental, 2018), the subject property has been occupied by a distribution warehouse for candy and vending machine businesses (1963 through 2013), catering and equipment occupants and BCS America (2013 through 2019), Total Handling Solutions (2015 through 2019), Temp Control Mechanical (2016 through 2019), and Green State of Mind (2016 through 2019). The subject property is currently vacant and is undergoing renovations for the new occupants (Walter E. Nelson Co.) following the sale of the property.

Properties adjoining the subject property include Temp Control Mechanical to the west; Stagecraft Industries to the northwest; North Lagoon Avenue to the north, across which is a trucking storage area; North Ballast Street to the east, across which is Olsa Resources; TCM Corporation to the southeast; and vacant commercial/industrial space to the south. The subject property is shown relative to surrounding physical features on Figure 1. The subject property layout and adjacent properties are shown on Figure 2.

2.1 SUBSURFACE CONDITIONS

Our understanding of site-specific subsurface conditions is based on our review of previously completed environmental assessments by others and our subsurface explorations completed in July 2019 and July 2020 (see Section 3).

Based on the history of Swan Island, it appears that significant amounts of fill, consisting of dredged material from the Willamette River, was historically placed beneath the subject property. During drilling activities, it was difficult to determine the contact between the upper hydraulically placed fill and lower native alluvial soil because the dredged material is similar to the presumptive native material. Therefore, only soil that was clearly and distinguishably fill material was identified as fill. However, it is likely that material identified as "native" soil could be historically placed fill.

During our July 2019 and July 2020 investigations, fill was encountered in borings DP-11 through DP-15 and DP-17 through DP-19. The fill material consists of sand with trace amounts of silt and was observed overlying a concrete slab at approximately 7.5 feet BGS in borings DP-11 through DP-13. This fill material appears to be the same fill material that was encountered off site during previous investigations (PEMCO, 1992). The fill material appeared to thin to the north and east, away from the shop building. Pea gravel was encountered in boring DP-3 (former shop UST area). Fill material was not encountered in the boring (DP-16) advanced beneath the subject property structure. It is likely that shallow fill material identified in other borings advanced at the subject property was removed during construction of the subject property structure.

Native soil below the fill consists of sand with trace amounts of silt and gravel. A gray silt layer with some clay and trace sand was encountered in borings DP-1, DP-2, DP-3, and DP-14 through DP-17 at depths between 22 and 23 feet BGS, reflecting a relatively low-permeability deposit that may impede the vertical migration of contaminants associated with on-site fill material. Sand and gravel were encountered below the silt to the total depths explored.

Groundwater has been encountered in temporary explorations advanced at the subject property at depths between approximately 21 and 31 feet BGS. Zones of perched groundwater could also

be present at shallower depths, particularly where more permeable soil is underlain by less permeable soil. Groundwater levels are also anticipated to fluctuate with water levels in the nearby Willamette River.

The direction of groundwater flow has not been specifically determined using groundwater elevation data. The subject property is located near the longitudinal axis of Swan Island; therefore, groundwater likely discharges to the Swan Island Basin (approximately 350 feet north/northwest) and the Willamette River (approximately 840 feet to the south). Based on the exact location of the subject property relative to the Swan Island longitudinal axis and proximity to the Swan Island Basin, we infer that the majority of site-derived groundwater flows north/northwesterly toward the Swan Island Basin.

3.0 PREVIOUS INVESTIGATIONS AND REMEDIAL ACTIONS

A summary of previous environmental investigations and remedial actions conducted at the subject property is discussed in this section. More detailed background information of the subject property can be found in the reports listed in the "References" section. Soil and groundwater analytical results generated during prior phases of assessment are summarized in Tables A-1 through A-11 presented in Appendix A. Detected concentrations of contaminants exceeding EPA Portland Harbor CULs and/or DEQ JSCS SLVs are shown on Figures 2 through 4.

3.1 UST DECOMMISSIONING

The subject property formerly contained six USTs that included the following (see Figures 2 and 3):

- One 10,000-gallon and three 20,000-gallon gasoline USTs formerly located northeast of the warehouse building
- One 550-gallon motor oil UST and one 1,000-gallon waste oil UST formerly located northeast of the shop building

These six USTs were decommissioned in the early 1990s. Petroleum hydrocarbons were not detected in the eight confirmation soil samples collected from beneath the gasoline USTs formerly located northeast of the warehouse.

Oil-impacted soil was observed during decommissioning of the motor oil and waste oil USTs formerly located near the shop building. Approximately 134 tons of petroleum-impacted soil were excavated from the motor oil and waste oil UST pit and transported off site for disposal. Confirmation soil samples collected from the limits of the remedial excavation indicated that TPH was detected at a maximum concentration of 1,600 mg/kg (Method 418.1). The approximate limits of the excavation associated with decommissioning of the USTs is shown on Figure 3.

3.2 PEMCO

PEMCO advanced four borings in 1992 (B-1 through B-4) west of the remedial excavation conducted at the shop building to evaluate the extent of impacted soil left in place (see Figure 3). The property where borings B-1 through B-4 were located has since been sold to another entity; therefore, they are outside of the current subject property boundary. Chemical analytical results

of the soil samples collected from the borings indicated that oil was detected in fill material at concentrations up to 2,000 mg/kg. PEMCO and DEQ concluded that the detection of oil appeared to be associated with fill material and was not related to the UST release.¹ DEQ issued an NFA determination in May 1997 for LUST File No. 26-91-0415, which was associated with the USTs. However, DEQ listed the subject property as ECSI No. 1430 due to detections of oil in the undocumented fill material.

3.3 K&S ENVIRONMENTAL PHASE I ESA

K&S Environmental conducted a Phase I ESA of the subject property in December 2018. The Phase I ESA identified the following RECs at the subject property:

- The subject property was listed as ECSI No. 1430 because of impacted fill previously identified at the subject property.
- A below-ground hydraulic hoist was observed in the shop of the subject property.
- Grated drains were observed in the shop of the subject property.

K&S Environmental recommended removing the hydraulic hoist and conducting an investigation in the vicinity of the drains.

3.4 K&S ENVIRONMENTAL INVESTIGATION AND HOIST REMOVAL

K&S Environmental conducted a subsurface investigation at the shop building January 2019, which included advancing four borings (B-1 through B-4) to evaluate potential impacts to the subsurface from the hydraulic hoists and catch basins, as shown on Figure 3. The maximum detected concentrations of diesel- and oil-range hydrocarbons, PCE, and PCBs were detected in boring B-3 (at approximately 7 feet BGS) at concentrations of 25,800 mg/kg, 17,000 mg/kg, 10.3 mg/kg, and 0.109 mg/kg, respectively.

K&S Environmental subsequently removed two in-ground hydraulic hoists formerly located inside the shop building in March 2019. A product sample collected of the hydraulic fluid indicated that PCBs were not detected at concentrations greater than the laboratory reporting limits. Approximately 45.25 tons of impacted soil were excavated from beneath the in-ground hydraulic hoists and disposed of off site at the Hillsboro landfill. Residual impacted soil was left in place because additional excavation would have compromised the building's foundation and structural integrity. Eight confirmation soil samples were collected from the limits of the excavation. The maximum detected concentrations of diesel-range hydrocarbons, PCE, and total PCBs were detected in confirmation soil sample C3 at concentrations of 3,600 mg/kg, 3.42 mg/kg, and 0.1265 mg/kg, respectively. The detected concentrations of PCE exceeded the DEQ JSCS SLV, which is discussed in detail in subsequent sections of this report. Groundwater was not encountered to the total depth explored of 14 feet BGS during the 2019 assessment activities.

3.5 GEODESIGN

GeoDesign (now NV5) conducted a limited site investigation at the subject property that included advancing 13 direct-push borings (DP-1 through DP-13; Figure 3) on July 18 and 19, 2019, to

NV5

4

DEQ's January 15, 2021, letter indicated that "shallow widespread surface contamination observed in the western portion of the site is similar in character and distribution to that associated with application of used for dust suppression."

evaluate soil and groundwater impacts in the shop area and advancing 6 direct-push borings (DP-14 through DP-19; Figure 2) on July 16, 2020, to evaluate the extent of fill material and groundwater conditions beneath the subject property. The groundwater investigation was conducted in accordance with a DEQ-approved work plan (GeoDesign, Inc., 2020). The results of the limited site investigations are discussed in the following sections.

3.5.1 Former In-Ground Hydraulic Hoist Area

Borings DP-1, DP-6, DP-8, DP-9, and DP-10 were advanced around the perimeter of the in-ground hydraulic hoist excavation to evaluate the lateral extent of residual contamination. Petroleum hydrocarbons, VOCs, PAHs, and PCBs were not detected in soil samples collected from these borings at concentrations greater than the applicable DEQ RBCs, EPA Portland Harbor CULs, or DEQ JSCS SLVs. Boring DP-2 was located in the area where the greatest concentrations of COPCs were detected during hoist decommissioning and was advanced significantly deeper than the previous excavation limits to evaluate the vertical extent of impacts. Elevated concentrations of the COPCs were not detected in the soil samples collected at depths greater than the previous excavation. Therefore, both the lateral and vertical extents of impacts were delineated and the remedial excavation conducted by K&S Environmental in March 2019 successfully remediated the impacts to soil from the release.

3.5.2 Fill Evaluation

Fill material (excluding pea gravel backfill) was encountered in GeoDesign borings DP-11 through DP-15, DP-17, and DP-18. The fill material encountered in the shop area was located above a concrete slab that was buried between 7.5 and 8.5 feet BGS. It appeared that the fill material thinned laterally to the north and east away from the shop building. The estimated extent of impacted fill material on the subject property is shown on Figure 2.

The fill material appears to be an area-wide unit associated with the former airport that occupied Swan Island from approximately 1927 through 1940. Chemical analytical results indicate that the fill material is impacted with petroleum hydrocarbons, SVOCs, PCBs, and metals at concentrations greater than EPA Portland Harbor CULs and/or DEQ JSCS SLVs. However, soil samples collected below the fill material indicated the COPCs were not detected at concentrations greater than applicable EPA Portland Harbor CULs and DEQ JSCS SLVs. The impacted fill material was encountered near the ground surface and at least 15 feet of "clean" material was present between the impacted fill material and groundwater.

3.5.3 Groundwater Evaluation

Groundwater samples were collected from temporary wells installed in direct-push borings DP-1 through DP-3 and DP-14 through DP-19. Groundwater sample chemical analytical results indicated that PCE, TCE, benzyl alcohol, arsenic, copper, and lead were detected in groundwater samples at concentrations greater than EPA Portland Harbor CULs and/or DEQ JSCS SLVs. The distribution of contaminants in groundwater is further discussed in Sections 8.0 and 9.0.

4.0 STORMWATER CONVEYANCE SYSTEM

The subject property stormwater conveyance system layout is shown on Figures 5 and 6. The majority of stormwater system infrastructure appears to have been constructed during site

development in 1963 and subsequent building additions between 1969 and 1978. Our knowledge of the stormwater system layout is based on the following:

- As-built drawings and permits (presented in Appendix B)
- City of Portland (online) records
- Camera surveys of the stormwater and wastewater discharge lines performed by the City of Portland in 1984 and 2000
- Camera survey inspections and dye testing of the stormwater system conducted by NV5 in 2021
- Recent modifications and upgrades to the stormwater collection and conveyance system completed in conjunction with site improvements completed between October 2021 and June 2022 for new tenancy

With the exception of small landscaped areas in the northeast and southeast corners, eastern margin, and along the building front of the subject property, the entire subject property surface is comprised of hardscapes, including building footprints and asphalt/concrete surfaces, that direct runoff to a series of catch basins. Stormwater collection and conveyance at the subject property has historically been accomplished via seven on-site catch basins (CB1 through CB7) and building roof drains² as shown on Figure 5. During site improvements in 2022, catch basin CB3 was removed and new stormwater infrastructure was constructed near the loading dock area in the western portion of the subject property. The 2021/2022 stormwater system improvements were largely separate (i.e., new additions) from the existing array of catch basins, and Figure 6 illustrates the updated and slightly modified collection and conveyance system. SCE-related work (including stormwater solids sampling from the array of catch basins) completed prior to May 2022 was completed for the stormwater system layout shown on Figure 5. SCE-related work completed after this date was completed for the stormwater system layout shown on Figure 6.

To achieve consistency with earlier SCE characterization work (specifically, stormwater effluent sampling), the stormwater sampling activities conducted in May 2022 did not incorporate discharges from the new catch basins located near the northwest corner of the site building. The new infrastructure (including a new catch basin at the loading dock servicing the sanitary system, a new catch basin at the loading dock servicing the stormwater system, a new catch basin and associated vegetated swale servicing the stormwater system with a separate lateral to the mainline in Lagoon Avenue) was constructed in accordance with the City of Portland Stormwater Manual. Due to the nature of this new construction, legacy solids were not a concern in the new stormwater infrastructure elements.

The on-site stormwater lateral conveyance inverts are approximately 4 feet BGS. As discussed in Section 2.1, groundwater has been encountered at the subject property between 21 and 31 feet BGS. Therefore, the on-site laterals are situated approximately 17 to 27 feet above the groundwater table.

6

NIV 5

BCSAmerica-1-02:090122

² The original stormwater system layout assessed and sampled as of December 2021 was slightly modified during site improvements and stormwater catch basin upgrades.

The City of Portland stormwater conveyance system discharges to the Swan Island Basin via Outfall S-2, located approximately 350 feet northwest of the subject property.

5.0 POTENTIAL SOURCES AND CONTAMINANTS OF POTENTIAL CONCERN

Potential sources of contaminants and the primary COPCs are discussed in the following sections.

5.1 POTENTIAL CONTAMINANT SOURCES

Based on previous investigations and our knowledge of the subject property, the following are *potential* sources for subject property-related contaminants to impact the Portland Harbor section of the Willamette River:

- Potentially impacted soil associated with fill material historically placed at the subject property
- Potentially impacted soil associated with former USTs at the subject property
- Residual sediments, if any, located within the stormwater conveyance lines and originating from prior subject property-related activities and/or historical particulate matter on paved surfaces entering the stormwater conveyance network

5.2 EVALUATION OF PATHWAYS TO THE WILLAMETTE RIVER

The pathways for potential sources of contaminants to impact the Willamette River sediments include residual subject property-derived sediments migrating to City of Portland Outfall S-2 via stormwater conveyance lines, stormwater discharges, facilitated groundwater transport by stormwater conveyance lines, and groundwater discharging to the Willamette River.

5.2.1 Site-Derived Sediment Migration

Camera surveys of on-site stormwater conveyances obtained in January 2021 (Section 4) did not indicate the presence of accumulated sediments in on-site conveyance lines. However, the potential for site-derived sediment migration into the network of catch basins and subsequent delivery to the Willamette River is considered potentially complete, and the evaluation of this pathway is summarized in Sections 7.0 and 8.0.

5.2.2 Stormwater Discharges

The stormwater discharge pathway to the Willamette River is considered complete, and the evaluation of this pathway is summarized in Sections 8.0 and 9.0.

5.2.3 Facilitated Groundwater Transport by Stormwater Conveyance Lines

As discussed in Section 4.0, on-site stormwater conveyance laterals are located approximately 17 feet above the groundwater table. Therefore, we consider the likelihood of facilitated groundwater transport in stormwater conveyance lines to be low and does not require further evaluation.

5.2.4 Groundwater Discharging to the Willamette River

The groundwater discharge pathway to the Willamette River is considered complete, and the evaluation of this pathway is summarized in Sections 8.0 and 9.0.

5.3 CONTAMINANTS OF POTENTIAL CONCERN

5.3.1 Soil

Petroleum hydrocarbons were identified in the vicinity of the former USTs and hoists located in the shop area of the subject property. The USTs were removed in the early 1990s and petroleum-impacted soil was disposed of off site. Subsequent investigations identified fill material at the subject property and on the adjoining sites from the ground surface to a maximum depth of 7.5 feet BGS. These subsequent investigations indicated that fill material is potentially impacted with the following COPCs:

- Petroleum hydrocarbons
- PAHs
- PCBs
- Metals, including antimony, arsenic, cadmium, chromium, copper, lead, mercury, and zinc

Two in-ground hydraulic hoists were removed from the subject property in 2019 and petroleum-impacted soil was removed to the extent practicable. Confirmation soil samples indicated that a pocket of residual soil containing petroleum hydrocarbons and PCE was present in the shop area.

5.3.2 Groundwater

Groundwater samples collected from the subject property were analyzed for the following COIs:

- Gasoline-, diesel-, and oil-range hydrocarbons
- VOCs (including TCE and PCE)
- SVOCs
- Total and dissolved arsenic, copper, and lead

Groundwater samples were not analyzed for pesticides, herbicides, cyanide, manganese, vanadium, dioxins, furans, and tributyltin because there is no known historical agricultural use and the subject property has not been occupied by businesses that use, store, or manufacture equipment or chemicals that would contain these compounds.

Based on the analytical results, the primary COPCs in groundwater at the subject property include metals, SVOCs, and VOCs (TCE and PCE), which were detected in the shop area of the subject property.

5.3.3 Catch Basin Sediment

As requested by DEQ, the following COPCs for the Portland Harbor were evaluated in sediment samples collected from the on-site catch basins:

- Gasoline-, diesel-, and oil-range hydrocarbons
- Dioxins and furans
- VOCs
- Chlorinated pesticides
- Chlorinated herbicides
- Tributyltin



- Phthalates
- PAHs
- 13 Priority pollutant metals
- PCBs

5.3.4 Stormwater

As requested by DEQ, the following COPCs for the Portland Harbor were also evaluated in stormwater samples collected from the subject property:

- Gasoline-, diesel-, and oil-range hydrocarbons
- Dioxins and furans
- VOCs
- Tributyltin
- Phthalates
- PAHs
- Total arsenic, cadmium, chromium, mercury, and zinc
- PCBs

These stormwater COPCs are consistent with the detected analytes in sediment samples collected from the network of catch basins at the subject property.

6.0 STORMWATER MANAGEMENT PRACTICES

Since BCS America LLC has occupied the subject property (2013 through 2019) standard BMPs were employed to minimize pollutant contact with stormwater runoff. The routine BMPs employed at the subject property have included maintaining hardscapes at the subject property, periodically sweeping and cleaning outside areas, covering equipment stored outside as practicable, and periodically cleaning the catch basins.

Following BCS America LLC's departure, the subject property has been vacant and subject to improvements completed between October 2021 and June 2022 (including stormwater system upgrades/improvements) ahead of occupancy by a new party (Walter E. Nelson Co.). We understand that the new tenant will employ similar BMPs related to stormwater source control.

7.0 CLEANING, SAMPLING, AND STORMWATER IMPROVEMENT ACTIVITIES

As part of this SCE, NV5 conducted catch basin sediment sampling activities in December 2020 and December 2021 to characterize stormwater solids. Between these two sampling events, the catch basins were cleaned and four rounds of stormwater sampling were completed. Following the December 2021 catch basin sediment sampling activities and based on our visual observation that the previously installed basins were in deteriorated condition, catch basins CB1, CB2, CB5, and CB7 were removed and replaced with new catch basin structures with replaceable filter inserts. Catch basin CB3 was also removed in conjunction with subject property improvements. Any legacy sediments contained within the former catch basins were removed during the replacement process. Following catch basin replacement, a final round of

stormwater sampling was conducted in May 2022 during the final stages of site improvements that were completed in the spring of 2022. Detailed descriptions of these activities are presented in the sections below.

Our observations, coupled with the catch basin replacement activities, indicate that there is only a low likelihood of historical sediment delivery to the Willamette River from on-site stormwater conveyance lines, which were removed during recent cleaning and catch basin upgrade/replacement activities.

7.1 CATCH BASIN SEDIMENT SAMPLING

7.1.1 December 2020 Catch Basin Sediment Sampling

NV5 conducted catch basin sediment sampling on December 17, 2020. NV5 collected a five-point composite sediment sample from each of the catch basins in accordance with the City of Portland Standard Operating Procedures, Guidance for Sampling Catch Basin Solids, prepared by CH2M Hill, dated July 2003.

Each sediment sample was collected by first removing pooled stormwater from around each catch basin by slowly pumping the stormwater. A hand pump was used to remove large quantities of stormwater pooled around catch basins CB2, CB4, CB6, and CB7 until stormwater was pooled within approximately 1 foot of the respective catch basin. The remaining stormwater was removed slowly using a peristaltic pump. A thin layer of water was left so that fine materials in the solids were not disturbed. Pumped water was directed to the sanitary sewer.

NV5 advanced a decontaminated, 2-inch-diameter hand auger into each catch basin in each of the four corners and one in the center of the catch basin to collect samples representative of both the lateral and vertical extent of sediments. The hand auger was advanced to the bottom of the catch basin to collect a sediment sample representing the entire sediment column. The recovered material from the five points was placed in a decontaminated, stainless steel bowl and homogenized. The five-point composite soil sample collected from each catch basin was placed into laboratory-provided jars and stored immediately on ice. NV5 collected a duplicate sediment sample from catch basin CB4 for QA/QC purposes. Sediment samples were temporarily stored on ice until transported to the laboratory under chain-of-custody documentation.

All sampling equipment used in the collection of sediment samples was decontaminated prior to use at each catch basin location. Decontamination was performed on all reusable processing equipment that came into contact with sample media. Decontamination was performed prior to sampling each location using the following procedures:

- 1. Rinsed with tap water and scrubbed with a scrub brush until free of large particles (e.g., sediment or soil)
- 2. Washed with phosphate-free (Alconox™) detergent solution
- 3. Rinsed with tap water
- 4. Rinsed with distilled water

The results of the December 2020 catch basin sampling activities are summarized in Table 1 and discussed in Section 8.2.1.

7.1.2 December 2021 Catch Basin Sediment Sampling

Upon review of the December 2020 sediment sampling results and DEQ's associated comments (DEQ, 2021b) regarding the notable PCB concentrations in catch basin CB1 and notable PAH concentrations in catch basin CB5, NV5 collected an additional round of sediment samples from catch basins CB1, CB2, and CB5 on December 14, 2021. The intent of the additional sediment sampling activities was to evaluate the nature of catch basin sediments that re-accumulated in the specific catch basins previously exhibiting elevated PCB and/or PAH concentrations since the prior sampling event (approximately one year earlier) and following system cleaning activities (see Section 7.2). At the time of sampling, approximately 3 to 4 inches of sediment had accumulated in the basins since the prior sampling and cleaning events. The catch basin sediment sampling methods and activities completed in December 2021 paralleled those methods described above for the December 2020 sampling event.

The results of the December 2021 catch basin sampling activities are summarized in Table 1 and discussed in Section 8.2.2.

7.2 STORMWATER CONVEYANCE SYSTEM CLEANING

Stratus Corporation of Gaston, Oregon, installed stormwater cleanouts on the laterals servicing the subject property on January 22, 2021. The cleanouts were installed to allow the stormwater system to be blocked during cleaning and as compliance sampling points. The cleanouts were installed at the locations shown on Figures 5 and 6. The two laterals on the subject property consist of 10-inch-diameter concrete pipes located at depths between 3.5 and 4 feet BGS. Stratus Corporation installed a 6-inch-diameter standpipe in each lateral using a T-fitting. The excavation was backfilled and patched with asphalt concrete.

Stratus Corporation cleaned and scoped the on-site stormwater conveyance system on January 25, 2021. Before the conveyance lines were cleaned, the bottoms and sides of each catch basin were cleaned using a pressure washer and vacuum truck. Wash water in the catch basin bottoms was removed with the vacuum hose before it could overflow into the conveyance lines. After the catch basins were cleaned, the lines servicing catch basins CB1, CB2, CB3, and CB5 were also cleaned using a jetting system. The jetting system used pressurized water delivered by a "jet-head" throughout the conveyance lines. Wash water in the lines was captured by a vacuum truck at the cleanouts previously installed.

The lines were scoped to confirm the configuration after cleaning. On the basis of the scoping, it was determined that catch basins CB1 and CB2 discharge to the eastern lateral and catch basins CB3 and CB5 discharge to the western lateral, as shown on Figure 5.

Catch basins CB4, CB6, and CB7 were not jetted during cleaning because the discharge point of these catch basins was not initially verified. On the basis of the scoping, it was determined that one sewer line serviced catch basins CB4, CB6, and CB7. The line that services catch basins CB4, CB6, and CB7 could not be scoped in its entirety because of a 90-degree bend located in the northern parking area that prevented the camera from advancing. However, the following lines of evidence were used to determine that the line connects to the City of Portland sanitary sewer system:

- Blueprints show that catch basins CB6 and CB7 connect to the sanitary line (presented in Appendix B).
- The 90-degree turn at which the camera could not get past is in line with the known sanitary sewer lateral. The location of the sanitary sewer line is based on a camera inspection (332868) conducted in 2016 and permits.
- A dye test was conducted using catch basin CB6. Dye was observed in the sewer line connected to catch basins CB7 and CB4, but dye was not observed in either cleanout installed in the two on-site stormwater lines.

During cleaning, 991.84 gallons of water and 0.46 tons of solids were generated and disposed of at Patriot Environmental Services located in Portland, Oregon. The disposal receipts are presented in Appendix C.

7.3 INITIAL STORMWATER COMPLIANCE SAMPLING

Stormwater sampling events were conducted on March 18, March 28, April 24, and May 24, 2021. Each stormwater sampling event was conducted by collecting one sample from the cleanouts previously installed on the two stormwater laterals on the subject property (see Figure 5). Stormwater samples were collected using a peristaltic pump and disposable PFA tubing connected to a section of Teflon inserted into the water stream at the bottom of the cleanouts.

In accordance with DEQ requirements, a total of four stormwater sampling events were initially conducted. Two of the sampling events (first and third) represent "first flush" conditions (within 30 minutes of initial discharge) and the remaining two sampling events (second and fourth) were collected within three hours of initial discharge. The sampling locations are shown on Figure 5. Stormwater samples were collected during each event from the stormwater cleanouts installed in the on-site laterals. Peristaltic pumps equipped with new, disposal PFA and silicon tubing were used to collect the stormwater samples into laboratory-provided jars. A duplicate stormwater sample was also collected during each of the initial sampling events. All stormwater samples represent grab samples. Samples were temporarily stored on ice until transported to the laboratory under chain-of-custody documentation.

During each sampling event, the paved areas of the subject property were generally free of debris. Storage, parking, and traveled areas appeared generally clean and in order. Rainfall was greater than 0.2 inch of rain over 24 hours for the sampling events conducted in March and April. The fourth compliance sampling event was conducted on May 24, 2021, during a storm event that was predicted for over 0.28 inch of rain. However, actual rainfall was 0.12 inch of rain over 24 hours. Before sample collection, the antecedent dry period (less than 0.1 inch of rain in the 24 hours preceding the sampling storm) was met for each sampling event. Hydrographs for each sampling event (using the USGS Swan Island Rain Gage) are presented in Appendix D.

7.4 STORMWATER SYSTEM IMPROVEMENTS AND CATCH BASIN REPLACEMENT

7.4.1 Stormwater System improvements

In conjunction with site improvements associated with planned new tenancy of the subject property, upgrades to the stormwater and sanitary collection and conveyance systems were completed between October 2021 and June 2022. These improvements included the following elements:

- One new catch basin (CB8) and conveyance line (and new cleanout) connected to the sanitary system was constructed at the loading dock area.
- One additional catch basin (CB9) and conveyance line (and new cleanout) for the stormwater system was constructed at the loading dock area.
- One new catch basin (CB11) was installed immediately northwest of the loading dock area.
 As part of this improvement, former catch basin CB3 was removed; however, the conveyance line connecting catch basin CB5 to the municipal line was retained.
- A new, lined vegetated swale (intended to store and treat stormwater) and associated catch basin/swale overflow CB12 was constructed immediately north of the loading dock area.
 This vegetated swale also receives effluent from the newly installed catch basin CB11 that replaced former catch basin CB3.

Figures 5 and 6 show the stormwater and sanitary collection and conveyance features before and after system improvements, respectively.

7.4.2 Catch Basin Replacements

Field observations recorded during the December 2020 and December 2021 catch basin sediment sampling activities suggested that the condition of the originally installed catch basins could contribute to elevated concentration of contaminants in catch basin sediment and stormwater samples. Specifically, the older catch basins were not amenable to the use of modern replaceable filter inserts and exhibited significant corrosion that could facilitate the intrusion of subgrade material (e.g., site fill particulates and subgrade water temporarily in contact with site fill following rain events).

Based on these observations, NV5 coordinated the replacement of catch basins CB1, CB2, CB5, and CB7 in late April and early May 2022.³ The replacement work included complete removal of the former structures and replacement with new catch basin structures with replaceable filter inserts, which were not previously in working order.

7.5 SUPPLEMENTAL STORMWATER COMPLIANCE SAMPLING

Following the catch basin replacement and upgrade activities described in Section 7.4, NV5 conducted an additional round of stormwater sampling on May 24, 2022. The supplemental stormwater sampling was intended to characterize the nature of stormwater reflecting the improved system condition following cleaning and catch basin replacement activities. The methods of stormwater sample collection for the May 2022 sampling event were identical to those employed for previous stormwater sampling events described in Section 7.3.

-



³ Replacement of catch basin CB3 was not necessary because this catch basin was removed and replaced with new catch basin CB11 during site improvements. Although catch basin CB7 services the sanitary system, it was also replaced due to its particularly deteriorated condition.

The results of the May 2022 stormwater compliance sampling activities are summarized in Tables 2 and 3 and discussed in Section 8.3.

8.0 DATA SUMMARY

Soil, groundwater, catch basin sediment, and stormwater sample analytical results are compared to respective EPA Portland Harbor CULs for these sample media.⁴ If EPA Portland Harbor CULs are not established for a particular analyte, the results were compared to the DEQ JSCS Initial Upland Source Control SLVs (DEQ JSCS SLVs).⁵

A duplicate sediment sample was collected from catch basin CB4 during the December 2020 sampling event, and one duplicate stormwater sample was collected during each of the initial sampling events for QA/QC purposes. The highest detected value between the two samples (original and duplicate) was used for comparison.

The sediment and stormwater analytical results were also plotted on the charts appended to DEQ's *Guidance for Evaluating the Stormwater Pathway at Upland Sites*, dated January 2009 and updated October 2010. The charts are discussed further in Section 9.1, and the sediment and stormwater sample analytical results plotted on the DEQ curves (using one-half the detection limit for summed values) are presented in Appendix E.

As summarized in the attached summary analytical tables, calculated values for total PCBs, cPAHs, total PAHs, and 2,3,7,8-TCDD are derived using the full laboratory detection limit and also using one-half of the laboratory detection limit.

8.1 GROUNDWATER

GeoDesign conducted a groundwater investigation (see Section 3.5) that included the collection of nine groundwater samples from the subject property. Groundwater sampling analytical results are summarized in Appendix A. Grab groundwater samples collected from temporary direct-push borings are viewed as reconnaissance-level screening information, as this type of sampling typically yields biased-high results due to sorption of contaminants on entrained soil particles within the samples.

PCE and/or TCE were detected in groundwater samples collected from borings DP-1, DP-2, DP-3, and DP-14 (advanced in the vicinity of the shop) at concentrations greater than the EPA Portland Harbor CULs and DEQ JSCS SLVs. The detected concentrations of PCE and TCE are highest beneath and adjacent to the shop (at DP-2 and DP-3) and appear to attenuate in the presumed down-gradient (northerly) direction, as evidenced by decreasing PCE and TCE concentrations at the DP-14 groundwater sampling location. Further examination of detected VOC concentrations in groundwater samples collected from borings DP-3 and DP-14 also indicate that reductive dechlorination is occurring to some degree, as evidenced by increasing concentrations of cis-1,2-DCE (a breakdown product of PCE) moving in a northerly direction.

_

⁴ Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, dated January 2017, updated January 14, 2020.

⁵ Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005.

Total and dissolved arsenic were detected in groundwater samples DP-1W, DP-2W, DP-3W, DP-14W, DP-15W, DP-17W, and DP-19W at concentrations greater than the EPA Portland Harbor CUL and the DEQ JSCS SLV. However, arsenic is a naturally occurring element and according to a study done by USGS (Hinkle and Polette, 1999), arsenic concentrations in groundwater between 10 and 50 μ g/L are widespread in the Willamette Basin.

Total copper and lead were detected in groundwater samples DP-1W and DP-14W at concentrations greater than the EPA Portland Harbor CULs and DEQ JSCS SLVs. However, dissolved copper and lead were not detected in groundwater samples DP-1W and DP-14W at concentrations greater than the EPA Portland Harbor CULs and DEQ JSCS SLVs. It appears that the total detected concentrations of copper and lead are likely elevated due to inclusion of suspended sediment in the sample.

Benzyl alcohol was detected in groundwater sample DP-2W at concentrations greater than the DEQ JSCS SLV but was not detected in the other groundwater samples at concentrations greater than the DEQ JSCS SLV. Therefore, it appears that the detected concentration is localized.

COPCs were otherwise either not detected or were detected at concentrations less than EPA Portland Harbor CULs and DEQ JSCS SLVs.

8.2 CATCH BASIN SEDIMENT

8.2.1 December 2020 Sediment Samples

Sediment samples (CB1 through CB7) and one duplicate sediment sample were collected from the on-site catch basins in December 2020 (prior to cleaning) and were analyzed for the following:

- Gasoline-range hydrocarbons by Method NWTPH-Gx
- Diesel- and oil-range hydrocarbons by Method NWTPH-Dx
- Organotins by EPA Method Organotins SIM
- VOCs by EPA Method 8260D
- PCBs by EPA Method 8082A
- SVOCs by EPA Method 8270E-SIM
- Phthalates by EPA Method 8270E
- 13 Priority pollutant metals by EPA Method 6020B (ICP-MS)
- Dioxins and furans by EPA Method 8290
- Organochlorine pesticides by EPA Method 8081B
- Organochlorine herbicides by EPA Method 8151

The December 2020 sediment sample chemical analytical results indicated the following:

- Tributyltin was detected in only one of the sediment samples (CB1), but at a concentration less than the EPA Portland Harbor CUL.
- PCBs were detected in sediment samples collected from catch basins CB4 and CB5 at concentrations greater than the DEQ JSCS SLV. Total calculated PCBs for the seven

- sediment samples exceeded the EPA Portland Harbor CULs. However, only the calculated total PCBs detected in catch basins CB4 and CB5 exceeded the typical range of values for catch basin sediment at industrial sites.
- PAHs, cPAHs, and calculated total PAHs were detected in sediment samples CB1 through CB-5 at concentrations greater than the EPA Portland Harbor CULs. However, only the total calculated PAHs detected in catch basins CB1, CB2, and CB3 exceeded the typical range of values for catch basin sediment at industrial sites.
- BEHP was detected in four of the catch basins (CB4 through CB7) at concentrations greater than the EPA Portland Harbor CUL. However, the detected concentrations of BEHP were within the typical range of typical values for catch basin sediment at industrial sites.
- Arsenic, cadmium, copper, lead, and nickel were detected at relatively low concentrations in catch basins at the subject property. The detected concentrations of these metals were within the range of typical values for catch basin sediment at industrial sites.
- Chromium, mercury, and/or zinc were detected at concentrations exceeding the EPA
 Portland Harbor CULs and/or DEQ JSCS SLVs in sediment samples collected from catch
 basins CB3, CB4, CB5, CB6, and CB7. However, with the exception of chromium and
 mercury concentrations in the sediment sample from catch basin CB4 and zinc
 concentrations in the sediment samples collected from catch basins CB3 and CB5, the
 detected concentrations appeared to be within the range of typical values for catch basin
 sediments at industrial sites.
- The calculated 2,3,7,8-TCDD TEQ value for sediment samples collected from each catch basin exceeded the EPA Portland Harbor CUL and several individual dioxins and furans were detected at concentrations greater than the EPA Portland Harbor CULs and/or DEQ JSCS SLVs.
- Organochlorine pesticides were not detected in the seven sediment samples.
- Chlorinated herbicides were generally not detected in the seven sediment samples. Silvex
 was detected in sediment samples CB-2, CB-3, and CB-4 at relatively low concentrations. An
 EPA Portland Harbor CUL or DEQ JSCS SLV is not established for Silvex.

A summary of the sediment sample results is presented in Table 1. The laboratory reports and chain-of-custody documentation are presented in Appendix F.

8.2.2 December 2021 Sediment Samples

The December 2021 sediment samples collected from catch basins CB1, CB2, and CB5 were analyzed for analyzed for the following:

- Diesel- and oil-range hydrocarbons by Method NWTPH-Dx
- PCBs by EPA Method 8082A
- SVOCs by EPA Method 8270E-SIM
- Phthalates by EPA Method 8270E
- 13 Priority pollutant metals by EPA Method 6020B (ICP-MS)
- Dioxins and furans by EPA Method 8290

The December 2021 sediment sample chemical analytical results indicated the following:

- Total PCBs were detected in sediment samples collected from catch basins CB1, CB2, and CB5 at concentrations greater than the DEQ JSCS SLV and EPA Portland Harbor CUL.
 Relative to the December 2020 sediment sampling results, the detected concentrations of PCBs were slightly greater at catch basin CB1 (i.e., slightly above the laboratory MRL), greater at catch basin CB2, and substantially lower at CB5.
- Calculated cPAHs in sediment samples CB1, CB2, and CB5 exceeded the EPA Portland Harbor CUL. Calculated total PAHs (using one-half of the detection limits) in sediment sample CB1 exceeded the EPA Portland Harbor CUL. The total calculated PAHs in catch basin CB1 exceeded typical values for catch basin sediment at industrial sites, and the total calculated PAHs in catch basins CB2 and CB5 were generally located at the "knee" of the distribution curve for typical values for industrial sites. Relative to the December 2020 sediment sampling results, the detected concentrations of PAHs were slightly lower at catch basin CB1, lower at catch basin CB2 (less than the EPA Portland Harbor CUL), and slightly greater (but less than the EPA Portland Harbor CUL) at catch basin CB5.
- BEHP was detected in the sediment sample collected from catch basin CB2 at a
 concentration greater than the EPA Portland Harbor CUL. However, the detected
 concentration of BEHP was generally consistent with the December 2020 sediment samples
 and appears to be within the range of typical values for catch basin sediment at industrial
 sites. BEHP was not detected at concentrations greater than the respective laboratory MRLs
 in the remaining sediment samples collected in December 2021.
- Arsenic, cadmium, chromium, copper, lead, mercury, nickel, and zinc were detected at
 relatively low concentrations in catch basins at the subject property. Several metals were
 detected at concentrations exceeding EPA Portland Harbor CULs and/or DEQ JSCS SLVs
 (refer to Table 1). Relative to the December 2020 sediment sampling results, the detected
 concentrations of metals were slightly greater at catch basins CB1, CB2, and CB5. However,
 consistent with the December 2020 results, the detected concentrations of these metals
 appear to be within the range of typical values for catch basin sediments at industrial sites.
- The calculated 2,3,7,8-TCDD TEQ value for sediment samples collected from catch basins CB1, CB2, and CB5 exceeded the EPA Portland Harbor CUL and several individual dioxins and furans were detected at concentrations greater than the EPA Portland Harbor CULs and/or DEQ JSCS SLVs. Relative to the December 2020 sediment sampling results, the calculated TEQ concentrations were slightly greater at catch basins CB1, CB2, and CB5.

A summary of the sediment sample results is presented in Table 1. The laboratory reports and chain-of-custody documentation are presented in Appendix F.

8.3 STORMWATER

8.3.1 Initial Stormwater Compliance Sampling

Initial compliance stormwater samples were collected from the two on-site lateral cleanouts (SW-1 and SW-2) during four separate sampling events in March (two sampling events), April, and May 2021. The initial compliance stormwater sample analytical results indicated the following:

- Arsenic was detected in all of the stormwater samples at concentrations between 0.143 and 1.70 μ g/L, which is greater than the EPA Portland Harbor CUL. Cadmium was detected in two of the samples collected at cleanout SW-2 at concentrations between 0.130 and 0.280 μ g/L Zinc was also detected in all of the stormwater samples at concentrations between 41.7 and 703 μ g/L. However, the detected concentrations are relatively low and within the range of typical values for stormwater at industrial sites. Remaining metals were either not detected or were detected at concentrations less than the respective EPA Portland Harbor CUL and/or DEQ JSCS SLV.
- PCBs were only detected in one stormwater sample collected during the four sampling events. Aroclor 1254 was detected in the stormwater sample collected from cleanout SW-1 during the May 2021 sampling event at a concentration of 0.0741 µg/L, which is greater than the DEQ JSCS SLV. Aroclor 1254 was not detected in the duplicate stormwater sample collected from this sampling point. In addition, the calculated value for total PCBs was 0.2232 µg/L, which is greater than the EPA Portland Harbor CUL. This value is relatively low and is within the range of typical values for stormwater at industrial sites. PCBs were otherwise not detected in any of the stormwater samples collected.
- Chloromethane was detected in only one stormwater sample collected during the four sampling events. Chloromethane was detected in the stormwater sample collected from cleanout SW-1 during the May 2021 sampling event at a concentration of 4.04 µg/L, which is greater than the DEQ JSCS SLV. The detected concentration of chloromethane appears to be isolated and is not a primary COPC at the subject property.
- Benzo(b)fluoranthene and benzo(a)pyrene were detected in stormwater sample
 SW-1(032821) at concentrations greater than EPA Portland Harbor CULs, but less than DEQ
 JSCS SLVs. In addition, the calculated cPAH value for stormwater sample SW-1(032821) of
 0.0309 µg/L is greater than the EPA Portland Harbor CUL. However, the calculated total PAH
 value for sample SW-1(032821) was within the range of typical values for stormwater at
 industrial sites. PAHs were otherwise either not detected or were detected at concentrations
 less than EPA Portland Harbor CULs and DEQ JSCS SLVs in the remaining sampling events.
- The calculated 2,3,7,8-TCDD TEQ value for all the stormwater samples ranged between 3.60E-06 and 1.44E-05 μg/L, which is greater than the EPA Portland Harbor CUL. However, dioxins and furans were generally not detected in the stormwater samples, including 2,3,7,8-TCDD.
- TSS was detected at concentrations ranging from 5,000 to 29,000 μg/L, which is less than the 1200-Z stormwater discharge permit benchmark for the Portland Harbor of 30,000 μg/L.

8.3.2 Supplemental Stormwater Compliance Sampling

Supplemental compliance stormwater samples were collected from the two on-site lateral cleanouts (SW-1 and SW-2) in May 2022 following catch basin replacement activities (see Section 7.4.2). The supplemental compliance stormwater sample analytical results indicated the following:

Arsenic was detected in the stormwater samples at concentrations between 0.357 and
0.386 μg/L, which is greater than the EPA Portland Harbor CUL. Zinc was also detected in
the stormwater samples at concentrations between 40.7 and 72.9 μg/L. Relative to the
preceding stormwater compliance sampling results, the detected concentrations of metals
were generally lower than or equal to previously detected values. However, consistent with

the earlier sampling results, the detected concentrations are relatively low and are within the typical range of values for stormwater at industrial sites. Remaining metals were either not detected or were detected at concentrations less than the respective EPA Portland Harbor CUL and/or DEQ JSCS SLV.

- PCB Aroclors were detected in stormwater samples SW-1 and SW-2 collected during the May 2022 sampling event at concentrations of 0.0113 µg/L and 0.0395 µg/L, respectively. The detected Aroclor concentration in stormwater sample SW-2 was greater than the DEQ JSCS SLV. In addition, the calculated values for total PCBs using one-half of the detection limits exceeded the EPA Portland Harbor CUL, which is consistent with the preceding May 2021 sampling event. Also similar to the previous detections, the detected PCB concentrations in May 2022 were slightly greater than the laboratory detection limits.
- VOCs (including chloromethane, which was previously detected in one stormwater sample collected from SW-1 in May 2021) were not detected in the supplemental stormwater samples collected in May 2022.
- Several PAHs, including benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, indeno(1,2,3-cd)pyrene, and chrysene, were detected in stormwater samples SW-1 and SW-2 at concentrations greater than EPA Portland Harbor CULs and/or DEQ JSCS SLVs. In addition, the calculated cPAH values for stormwater samples SW-1 and SW-2 were greater than the EPA Portland Harbor CUL. Several PAHs were detected during the May 2022 stormwater sampling event that were not detected in preceding sampling events. However, the May 2022 sampling event achieved substantially lower laboratory detection limits than earlier events and this observation is not interpreted as an increase relative to earlier stormwater sampling events, and the calculated total PAH value for stormwater samples collected in May 2022 are within the range of typical values for stormwater at industrial sites.
- The calculated 2,3,7,8-TCDD values for stormwater samples collected in May 2022 ranged between 3.51E-06 and 4.58-06 μg/L, which are generally consistent with calculated values for preceding compliance stormwater sampling events and greater than the EPA Portland Harbor CUL. However, similar to prior sampling events, individual dioxins and furans were generally not detected in the stormwater samples, including 2,3,7,8-TCDD.
- TSS was detected at concentrations ranging from 21,400 to 36,800 µg/L in the May 2022 stormwater samples, which are less than or generally equal to the 1200-Z stormwater discharge permit benchmark for the Portland Harbor of 30,000 µg/L. The TSS values measured in May 2022 are generally greater than those previously measured in preceding compliance stormwater sampling events in 2021 and are further discussed in Section 9.1.

A summary of the stormwater sample results is presented on Tables 2 and 3. The laboratory reports and chain-of-custody documentation are presented in Appendix F.

8.4 OA/OC

The chemical analytical data was reviewed for QA/QC issues. Our review indicated that select analytes had detection limits that exceeded regulatory screening levels and/or the laboratory had assigned qualifiers to select reported values.

A discussion of analytes with detection limits greater than applicable regulatory screening levels is presented in Appendix F. In general, the detection limits were the lowest possible detection

limits achievable by the laboratories and only slightly exceeded the regulatory screening levels. Therefore, it is our professional opinion that these qualifications do not hinder our ability to accurately characterize the subject property.

VOCs were not detected in the trip blank samples analyzed. This indicates that cross contamination did not occur during transportation of the samples to the analytical laboratory.

A duplicate sediment sample was collected from catch basin CB-4 during the December 2020 sampling event, and duplicate stormwater samples were collected during each of the initial stormwater compliance sampling events. In general, the RPD for detected analytes was below 50 percent. Therefore, the samples are considered representative of the environmental conditions at the subject property and the results confirm the laboratory precision is acceptable.

9.0 SOURCE CONTROL EVALUATION

The following sections summarize the lines of evidence used to support our opinion that the stormwater source control at the subject property is adequate and that the subject property does not represent a significant past, current, or future source of contamination to the Willamette River. Based on the catalog of stormwater data for the subject property and other lines of evidence, it is our opinion that source control sampling activities completed to date are adequate and further sampling related to the SCE is not warranted. A summary of our data evaluation and lines of evidence supporting our opinion is presented in the following sections.

As referenced previously, NV5 reviewed the analytical data from the catch basin sediment and stormwater sampling activities to evaluate if the concentrations of contaminants were representative of typical industrial sites. The "Tool for Evaluating Stormwater" included in the DEQ guidance was used to gauge the respective concentration ranges for comparison to the data collected at the subject property. Charts are provided in the DEQ tool to evaluate contaminant concentrations at industrial sites in the Portland Harbor area. The concentrations are charted in a curve, which includes a flat portion and a steep portion. The transition area is called the "knee" of the curve. Concentrations within the flat area of the curve are considered typical of industrial sites, while concentrations higher than the knee may represent elevated concentrations. The DEQ tool demonstrates that even constituents up to two orders of magnitude higher than the most conservative EPA Portland Harbor CULs or DEQ JSCS SLVs are well within the typical range of industrial values. Concentrations that are considered "typical" of industrial sites may not necessarily indicate protectiveness within the Portland Harbor study area but are nonetheless considered along with other lines of evidence to support a Source Control Decision.

9.1 CATCH BASIN SEDIMENT

Using the aforementioned DEQ "Tool for Evaluating Stormwater," our evaluation of stormwater solids (catch basin sediment) sample data generated at the subject property indicate the following:

- With the exception of sediment samples collected from catch basins CB-4 and CB-5 in December 2020 and catch basin CB-5 in December 2021, the detected concentrations of total PCBs fell below the "knee" of the DEQ curve. We note that catch basin CB4 services the sanitary utility.
- Total PAHs were detected in several catch basin sediment samples at concentrations above
 the "knee" of the DEQ curve, including CB1 (December 2020 and December 2021) CB2
 (December 2020 and December 2021), CB3 (December 2020), and CB5 (December 2021).
 The remaining catch basin sediment sample results plotted below the "knee" of the DEQ
 curve and fell within the typical range of values for industrial sites.
- BEHP has not been detected in any catch basin sediment samples at concentrations above the "knee" of the curve and therefore reflect the typical range of values for industrial sites.
- With the exception of chromium⁶, mercury⁷, and zinc⁸, total metals were not detected above the "knee" of the respective curves and therefore reflect the typical range of values for industrial sites.

The sediment sampling activities and results presented in this report reflect the condition prior to catch basin replacement activities (Section 7.4.2) completed in May 2022. Specifically, the older catch basins were not amenable to the use of modern replaceable filter inserts and exhibited significant corrosion that could facilitate the intrusion of subgrade material (e.g., site fill particulates). During the period of time when catch basin sediment sampling was completed, the subject property was subject to site improvements that included some subsurface utility work and the construction of a new loading dock area (Figures 5 and 6). The site improvements included temporary exposure of the subgrade (fill) material. We therefore conclude the following:

- It is likely that surface sediments transported by a variety of means (windblown, vehicular traffic associated with site improvements, and related potential exposure of site fill) were deposited on paved surfaces via construction vehicles and subsequently migrated to the interior of the catch basins.
- It is likely that shallow fill material (which contains documented concentrations of PCBs, PAHs, and metals) may have migrated into the older catch basins through holes created by corrosion on the structures.

The catch basin replacement activities were specifically intended to address the possible routes of sediment deposition into the stormwater collection network. At the time of the May 2022 stormwater sampling activities, only trace amounts of sediment were observed in the bottom of the new catch basins. The presence of replaceable filters in the new catch basins indicates that future sediment loading into the stormwater collection and conveyance system will be significantly reduced in the future, and frequent filter servicing will help minimize exposure of stormwater to accumulated solids on the filter inserts. These measures are expected to improve stormwater quality at the subject property.

_

⁶ Including CB1 (December 2021), CB4 (December 2020) and CB5 (December 2021)

⁷ Including CB2 (December 2021), and CB4 (December 2020)

⁸ Including CB5 (December 2020 and December 2021)

9.2 **STORMWATER**

Using the aforementioned DEQ "Tool for Evaluating Stormwater," our evaluation of stormwater sample data generated at the subject property, including the results of stormwater sampling following stormwater system cleaning and upgrades/replacements, indicate the following:

- Total PCBs, BEHP, total metals (arsenic, cadmium, chromium, mercury, and zinc), and TSS were not detected in any of the initial or supplemental compliance stormwater samples at concentrations above the typical range of values for industrial stormwater.
- Total PAHs were detected in the initial (April 2021 and May 2021) stormwater compliance samples collected at cleanouts SW-1 and SW-2 at concentrations above the "knee" of the DEQ curve, However, following catch basin replacement activities, total PAHs were not detected above the "knee" of the curve, which generally reflects improvement from this measure.

Constituents detected at concentrations greater than the EPA Portland Harbor CULs/DEQ JSCS SLVs are sometimes associated with particulate deposition from wind-blown dust and/or vehicles, which may be an intermittent source to subject property stormwater. The detected and calculated concentrations of 2,3,7,8-TCDD TEQ are an example of this possibility, as an historical or current source of this group of compounds has not been identified and it is highly unlikely that an on-site source of these constituents is present at the subject property connected to current or historical site operations.

Although the measured values of TSS in stormwater samples collected in May 2022 (following catch basin replacements) were within the typical range of values for industrial stormwater, those values were elevated in comparison to preceding stormwater sampling events that reflected catch basins in deteriorated condition with ill-fitting filters. The May 2022 stormwater sampling activities were conducted relatively soon after the catch basin replacement activities and although care was taken in re-plumbing the new catch basins to the existing stormwater conveyance lines, it is possible that minor amounts of debris (including site fill) may have been introduced to the conveyance system, possibly affecting the associated stormwater sample analytical results. We anticipate that this condition, if present, is temporary in nature and the associated TSS concentrations will decrease.

The City of Portland issued a Completion Summary (City of Portland, 2013) for the City of Portland Outfall Basin S-2 (to which the subject property discharges) in December 2013. The report summarizes SCEs for areas within the S-2 basin completed in collaboration with DEO. The summary relied on a comprehensive analysis (Confluence et.al., 2013) of the hydrodynamics and sediment distribution analyses performed on behalf of the Daimler Trucks North America site in the western portion of the basin⁹, as well as other nearby SCEs completed within the S-2 discharge area of Swan Island Lagoon completed by others (GSI Water Solutions, Inc., 2015). The City of Portland Completion Summary report presented a key finding as follows:

NV5

The Daimler site experienced a fire in 2009 that resulted in contaminant releases to the storm system and may be a potential source of dioxins/furan deposition in the subject property vicinity.

"Evaluation of inriver sediment data did not indicate that the outfall is a significant pathway for contaminants to Swan Island Lagoon. However, given the sensitive nature of the lagoon, the City collected and analyzed basin stormwater data to verify that source tracing was not needed. The City also conducted an inline solids investigation in the basin following a release to the system to confirm that ongoing sources were not present. Three DEQ Cleanup Program sites are located within the basin. There are two operable units (OU) of the shipyard partially in the basin; DEQ issued a source control decision at OU3 and a source control evaluation (SCE) is underway at OU1. DEQ determined that SCE is not needed or is a low priority at the third site."

The findings presented in the City of Portland Completion Summary Report for Outfall Basin S-2 with regard to a favorable review of inriver sediment data provides another line of evidence that subject property-related discharges of stormwater (even prior to the site improvements and stormwater system upgrades) do not pose an unacceptable risk to the Portland Harbor.

9.3 GROUNDWATER

Based on the information presented in Section 8.1, we consider the groundwater migration pathway (from the subject property to the Willamette River) to be controlled and insignificant for the following reasons:

- There are no active sources of petroleum hydrocarbons or chlorinated solvents at the subject property.
- PCE and/or TCE were detected in groundwater samples collected from borings DP-1, DP-2, DP-3, and DP-14 (advanced in the vicinity of the shop) at concentrations greater than the EPA Portland Harbor CULs and DEQ JSCS SLVs. The detected concentrations of PCE and TCE are highest beneath and adjacent to the shop (at DP-2 and DP-3) and appear to attenuate in the presumed down-gradient (northerly) direction, as evidenced by decreasing PCE and TCE concentrations at the DP-14 groundwater sampling location. Further examination of detected VOC concentrations in groundwater samples collected from borings DP-3 and DP-14 also indicates that reductive dechlorination is occurring to some degree, as evidenced by increasing concentrations of cis-1,2-DCE (a breakdown product of PCE) moving in a northerly direction. In their letter dated January 15, 2021, DEQ stated that "based on the presence and ratio of PCE daughter products, it appears biological reductive dechlorination is a significant mechanism of contaminant attenuation at the site" and "there is insufficient remaining PCE and TCE mass in the vadose and saturated zones in the shop area to sustain a continuous plume and complete pathway to the river" (DEQ, 2021a). Therefore, PCE and TCE concentrations detected at the subject property do not appear to represent a significant risk to the Portland Harbor.
- Total and dissolved arsenic were detected in groundwater samples DP-1W, DP-2W, DP-3W, DP-14W, DP-15W, DP-17W, and DP-19W at concentrations greater than the EPA Portland Harbor CUL and the DEQ JSCS SLV. However, arsenic is a naturally occurring element and according to a study done by USGS (Hinkle and Polette, 1999), arsenic concentrations in groundwater between 10 and 50 µg/L are widespread in the Willamette Basin. Based on the widespread detections of arsenic in groundwater at the subject property and the referenced

- study, the detected concentrations of arsenic are considered representative of background concentrations in the area and do not represent an elevated or unacceptable risk to the Willamette River.
- Total copper and lead were detected in groundwater samples DP-1W and DP-14W at
 concentrations greater than the EPA Portland Harbor CULs and the DEQ JSCS SLVs.
 However, dissolved copper and lead were not detected in groundwater samples DP-1W and
 DP-14W at concentrations greater than the EPA Portland Harbor CULs and the DEQ JSCS
 SLVs. It appears that the total detected concentrations of copper and lead are likely
 associated with suspended solids in the samples and do not represent an unacceptable risk
 to the Willamette River.
- Benzyl alcohol was detected in groundwater sample DP-2W at concentrations greater than
 the DEQ JSCS SLV but was not detected in the down-gradient or up-gradient groundwater
 samples at concentrations greater than the DEQ JSCS SLV. Therefore, it appears that the
 detected concentration is localized and does not represent a significant risk to the Portland
 Harbor.
- Facilitated transport of groundwater in stormwater conveyance lines is considered a low likelihood because the on-site conveyance laterals are located approximately 17 feet above the seasonal high groundwater table.
- In their letter dated January 15, 2021, DEQ stated that "groundwater contamination is adequately controlled on the site with respect to the Portland Harbor" (DEQ, 2021a).

10.0 FINDINGS AND CONCLUSIONS

NV5 has conducted SCE activities (including groundwater sampling, stormwater conveyance line cleaning/upgrades, and sediment and stormwater sampling) at the subject property located at 5001 North Lagoon Avenue in Portland, Oregon. These activities were performed in accordance with DEQ's *Guidance for Evaluating the Stormwater Pathway at Upland Sites*, dated January 2009 and updated October 2010; DEQ/EPA's *Portland Harbor Joint Source Control Strategy*, dated December 2005; the *EPA Record of Decision, Portland Harbor Superfund Site*, dated

January 2017; and DEQ-approved work plans. The results of the SCE activities indicate the following:

- 1. Existing and potential facility-related contaminant sources have been identified and characterized:
 - a. The potential sources to impact river sediments are (1) potentially impacted soil associated with fill and/or former USTs, (2) sediments in the stormwater conveyance system, (3) COPC in stormwater, and (4) COPCs in groundwater. Each potential source has been fully characterized by investigations performed pursuant to DEQ-approved work plans.
 - i. Soil has been characterized through numerous phases of subsurface investigation.

- ii. Camera surveys did not reveal significant sediments, and conveyance line cleaning (flushing) activities and associated catch basin replacement activities removed potential stormwater solids. The cleaned condition has been characterized by multiple rounds of compliance stormwater sampling (including first-flush sampling).
- iii. Groundwater has been characterized by samples collected from a series of grab samples.
- b. Substances detected and the basis for determining that all sources have been identified and characterized are as follows:
 - i. Sediment sample results indicate some metals, tributyltin, PCBs, phthalates, PAHs, and dioxins/furans were detected at concentrations exceeding EPA Portland Harbor CULs and/or DEQ JSCS SLVS. The initial catch basin sediment sampling was conducted when the basins contained significant amounts of sediment at the time of sampling and likely represented "worst case" conditions. The second round of catch basin sediment sampling was conducted prior to catch basin replacement activities, and it was determined that the former catch basins were significantly corroded, potentially allowing the intrusion of site fill material. The catch basins and conveyance lines were subsequently cleaned, and the catch basins were replaced with modern structures fitted with replaceable filter inserts. As a result, the legacy sediment was removed, and future sediment buildup is expected to be significantly diminished as a result of these measures
 - ii. Stormwater sample results indicate metals, PCBs, PAHs, chloromethane, and dioxins/furans were detected at concentrations exceeding the most conservative EPA Portland Harbor CULs or DEQ JSCS SLVs. However, none of these contaminants has been detected at concentrations exceeding "typical industrial stormwater concentrations" per DEQ's "Tool for Evaluating Stormwater Data."
 - iii. Groundwater sample results indicate PCE and TCE were detected in groundwater samples collected from beneath the shop at concentrations greater than the EPA Portland Harbor CULs. However, the detected concentrations of PCE and TCE are expected to quickly attenuate to below the DEQ JSCS SLV and EPA Portland Harbor CUL, and the presence of daughter compounds reflects ongoing reductive dechlorination. DEQ concurred that groundwater contamination is adequately controlled at the subject property (DEQ, 2021a). The groundwater-to-surface water pathway is considered controlled and insignificant for the migration of contaminants to the Willamette River.
- Potential stormwater contaminant sources are being controlled to the extent feasible:
 - a. Particulate matter on paved surfaces (which cover the entire subject property with the exception of some small, landscaped areas) is controlled by regular site sweeping and the housekeeping practices described herein.
 - b. Catch basin sediments are controlled by the presence of catch basin filter inserts, catch basin cleanouts, and frequent maintenance.

- c. Stormwater is managed by completing the above-mentioned BMPs. Groundwater sources have been delineated and successfully remediated.
- 3. Post-conveyance line cleaning stormwater sample data support the conclusion that source control measures and BMPs are effective:
 - Stormwater COPCs and TSS quantified during the post-cleaning stormwater sampling program demonstrate consistency with typical Portland Harbor stormwater concentrations.
- 4. Historical and current stormwater discharges from the subject property have not resulted in unacceptable risk to the Portland Harbor.
 - a. The City of Portland issued a Completion Summary (City of Portland, 2013) for the City of Portland Outfall Basin S-2 (to which the subject property discharges) in December 2013. In that report, the Cit of Portland stated that "Evaluation of inriver sediment data did not indicate that the outfall is a significant pathway for contaminants to Swan Island Lagoon."
 - b. The findings presented in the City of Portland Completion Summary Report for Outfall Basin S-2 with regard to a favorable review of inriver sediment data provides another line of evidence that subject property-related discharges of stormwater (even prior to the site improvements and stormwater system upgrades) do not pose an unacceptable risk to the Portland Harbor.

Based on the multiple lines of evidence provided herein, we request that DEQ issue a Source Control Decision finding that (1) the subject property has been adequately characterized, sources and pathways for mobilization of contaminants have been addressed, and sufficient investigation has been performed to confirm that contaminants are not leaving the subject property at levels presenting unacceptable risk and (2) the subject property is eligible for a determination that it is not a past, current, or reasonably likely future source of contamination to the Willamette River and that additional source control measures are not required.

11.0 LIMITATIONS

This report has been prepared for the Oregon Department of Environmental Quality, on behalf of BCS America LLC. This report is not intended for use by others, and the information contained herein is not applicable to other sites. Reliance by other parties must be approved by NV5 in accordance with our standard contractual process for third-party reliance. Our interpretations are based on data from select samples collected by NV5 and others. The results of the analyses only indicate the presence or absence of those chemical constituents analyzed in those sample locations. The conclusions presented in this report are based on our observations made during field investigations and chemical analytical data. The findings of this assessment should be considered as a professional opinion based on our evaluation of select and limited data.

Our services have been executed in accordance with the generally accepted practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.

*** * ***

Please call if you have questions concerning the information provided.

OREGON

06/30/23

EXPIRES:

Sincerely,

NV5

Erik A. Hedberg, P.E., C.W.R.E

Associate Engineer

Mike F. Coenen, P.E.

Principal Engineer

NIVI5

REFERENCES

Confluence Environmental Company, Coast & Harbor Engineering, and Pacific Groundwater Group, 2013. Swan Island Basin Hydrodynamic and Stormwater Solids Fate and Transport Analysis, dated September 9, 2013.

City of Portland, 2013. Completion Summary for City of Portland Outfall Basin S-2, dated December 2013.

DEQ, 2021a. Former Auto-Vending, ECSI #1430; Source Control Evaluation; 5001 North Lagoon Avenue, Portland Oregon, dated January 15, 2021.

DEQ, 2021b. DEQ Review "Draft Source Control Evaluation," *Auto-Vending, ECSI File No. 1430,* dated November 10, 2021.

GeoDesign, Inc., 2020. Work Plan; Supplemental Limited Site Investigation; Former Automatic Vending Company; 5001 North Lagoon Avenue; Portland, Oregon; ECSI No. 1430, dated May 19, 2020. GeoDesign Project: BCSAmerica-1-01-03

GeoDesign, Inc., 2021a. Revised Work Plan; Stormwater Conveyance System Sampling; Former Automatic Vending Company; 5001 North Lagoon Avenue; Portland, Oregon; ECSI No. 1430, dated January 5, 2021. GeoDesign Project: BCSAmerica-1-02

GeoDesign, Inc., 2021b. Stormwater Conveyance System Cleaning and Scoping; Former Automatic Vending Company; 5001 North Lagoon Avenue; Portland, Oregon; ECSI File No. 1430, date February 12, 2021. GeoDesign Project: BCSAmerica-1-02

GeoDesign, Inc., 2021c. Catch Basin Sediment Sampling; Former Automatic Vending Company; 5001 North Lagoon Avenue; Portland, Oregon; ECSI No. 1430, dated February 19, 2021. Project: BCSAmerica-1-02

GeoDesign, Inc., 2021d. Work Plan; Stormwater Conveyance System Sampling – Stormwater; Former Automatic Vending Company; 5001 North Lagoon Avenue; Portland, Oregon; ECSI No. 1430, dated February 23, 2021. Project: BCSAmerica-1-02

GeoDesign, Inc., 2021e. Source Control Evaluation – Groundwater; Former Automatic Vending Company; 5001 North Lagoon Avenue; Portland, Oregon; DEQ ECSI No. 1430, dated April 26, 2021. Project: BCSAmerica-1-01-03

GeoDesign, Inc., 2021f. Contaminated Media Management Plan; Former Automatic Vending Company; 5001 North Lagoon Avenue; Portland, Oregon; ECSI No. 1430, dated May 27, 2021. Project: BCSAmerica-1-02

GSI Water Solutions, Inc., 2015. Revised Preliminary Assessment/Source Control Evaluation; End of Swan Island Lagoon; City of Portland Property; Portland, Oregon; ECSI #3901, dated April 2015.



Hinkle, Stephen R. and Polette, Danial J., 2019. *Arsenic in Ground Water of the Willamette Basin, Oregon*, dated 1999.

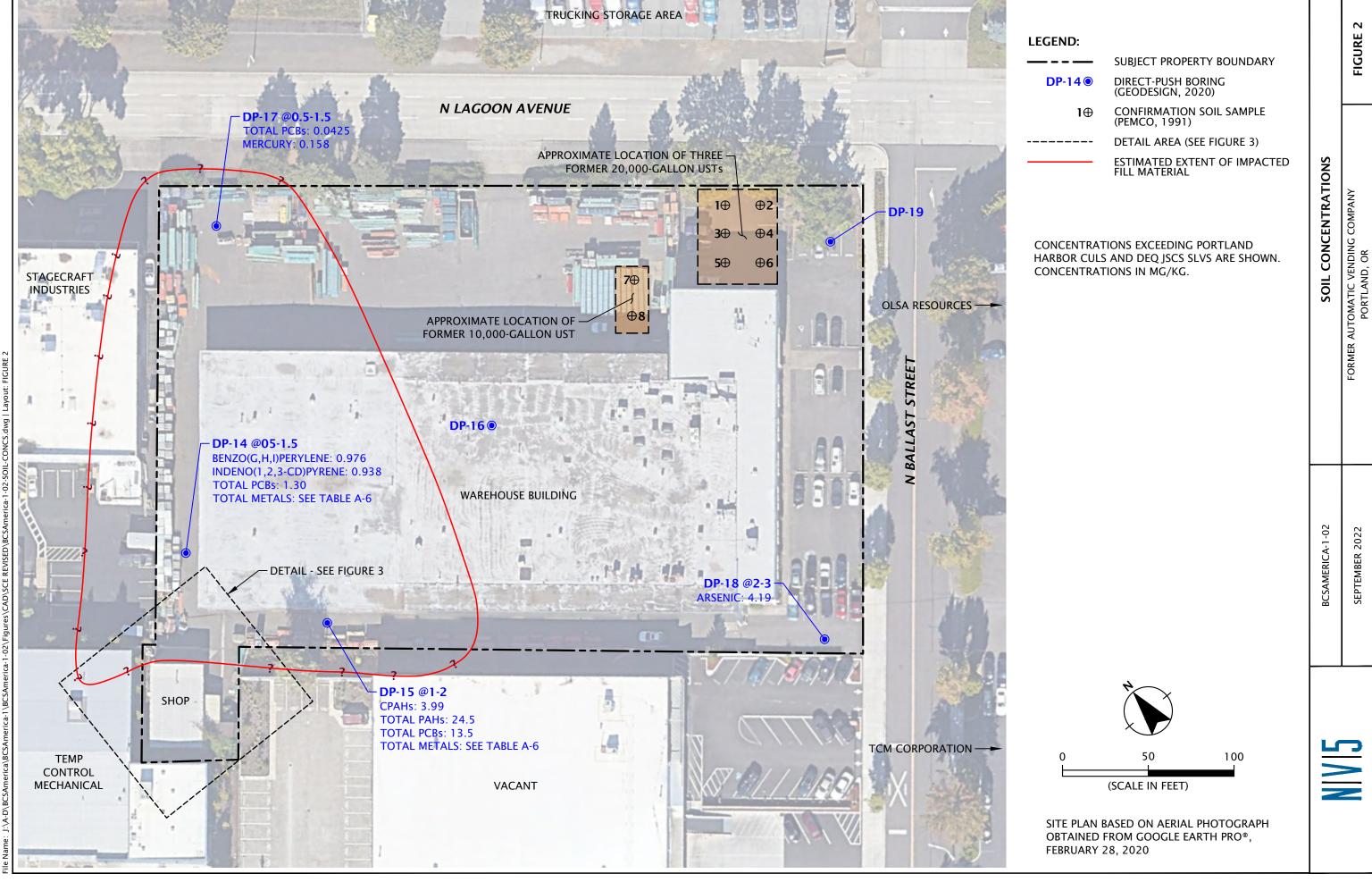
K&S Environmental, Inc., 2018. *Phase 1 Environmental Site Assessment,* dated December 7, 2018.

K&S Environmental, Inc., 2019. *Hoist Removal and Remedial Excavation Report*, dated April 1, 2019.

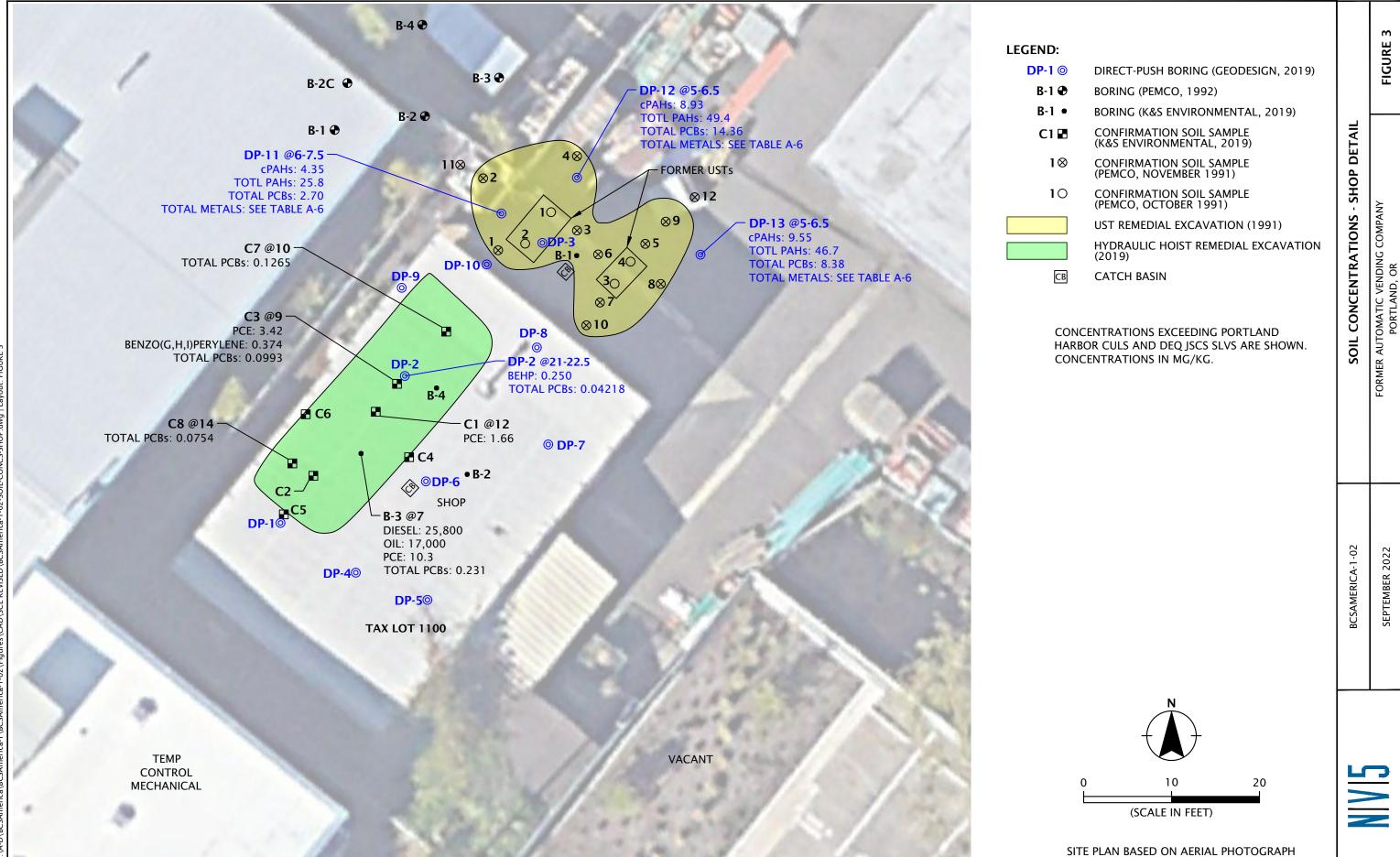
PEMCO, 1992. Subsurface Investigation, dated July 15, 1992.

FIGURES

Printed By: mmiller | Print Date: 8/31/2022 10:08:52 AM File Name: J:\A-D\BCSAmerica\BCSAmerica-1\BCSAmerica-1-02\Figures\CAD\SCE REVISED\BCSAmerica-1-02-VM01.dwg|Layout: FIGURE 1



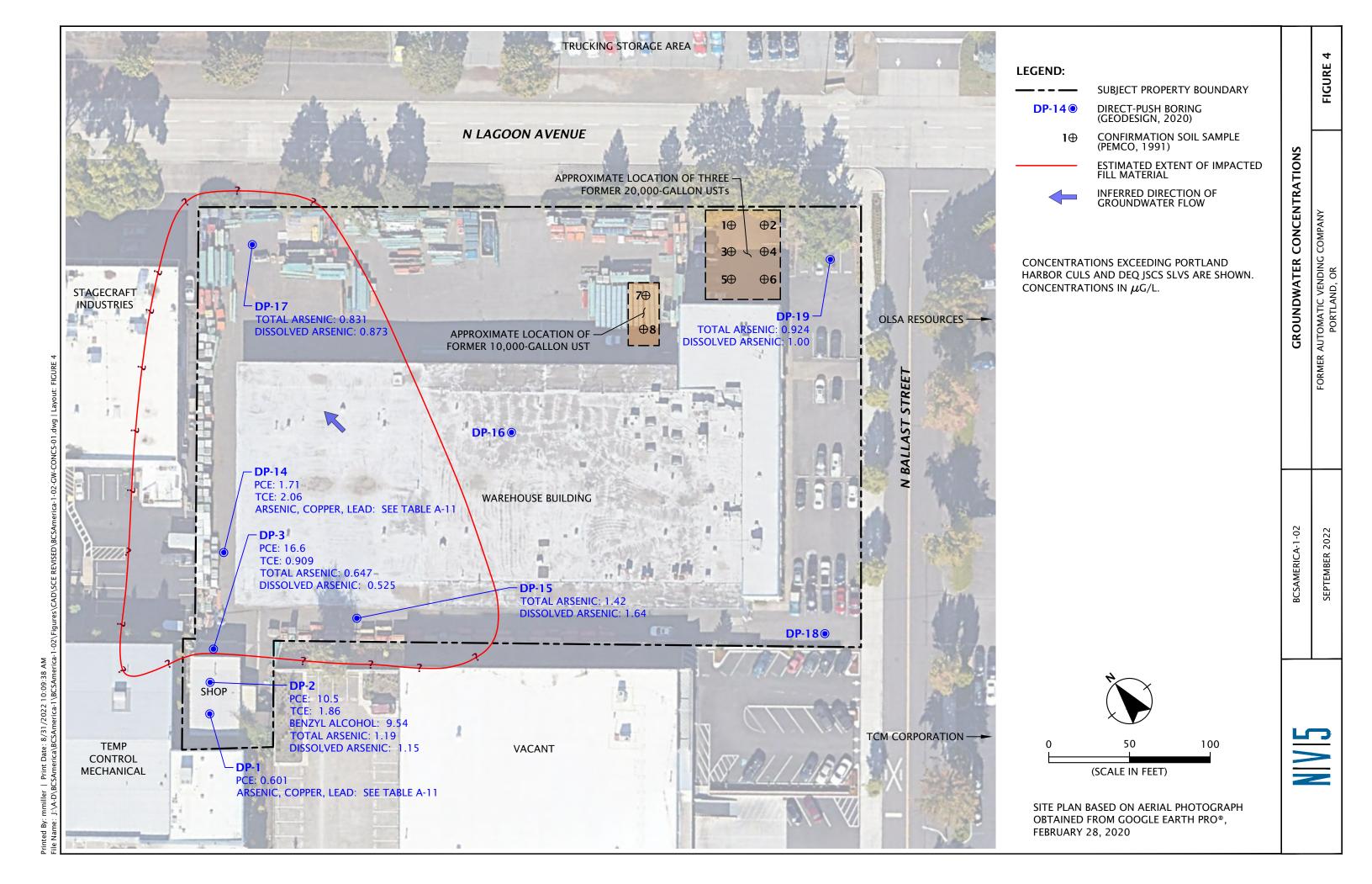
rinted By: mmiller | Print Date: 8/31/2022 10:09:07 AM

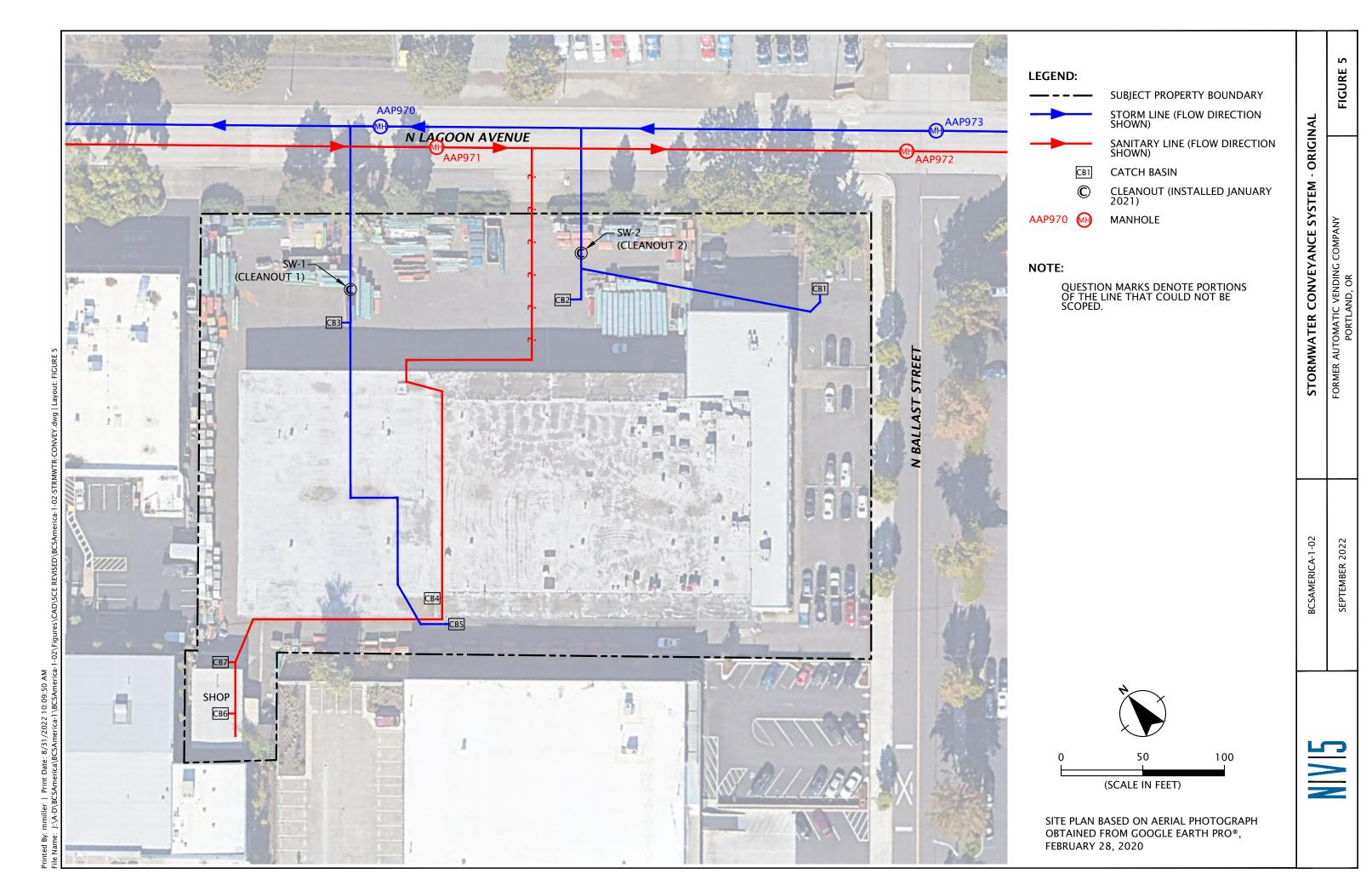


: 8/31/2022 10:09:21 AM BCSAmerica-1\BCSAmerica-1

OBTAINED FROM GOOGLE EARTH PRO®,

FEBRUARY 28, 2020





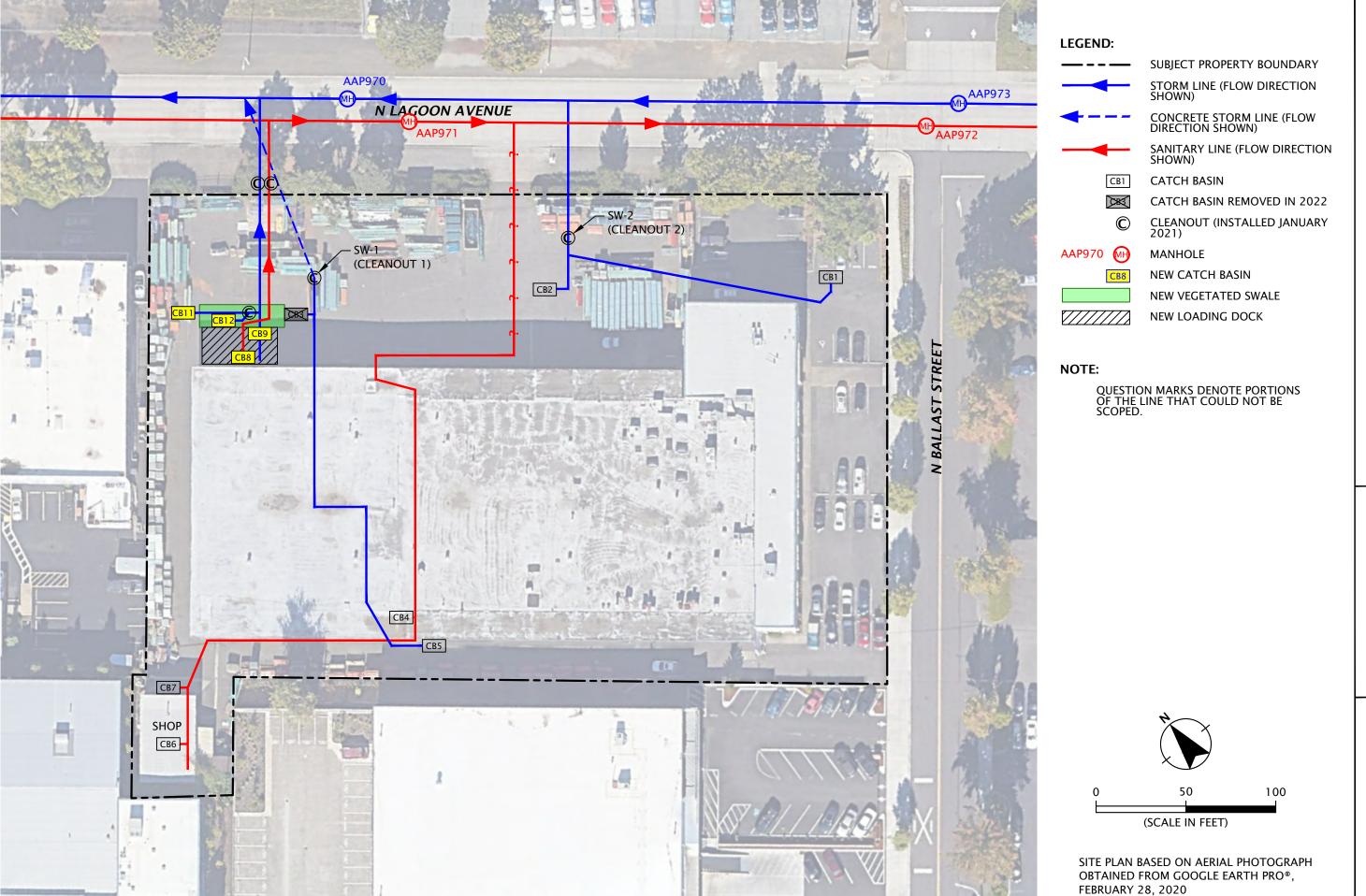


FIGURE 6

STORMWATER CONVEYANCE SYSTEM - UPDATED

FORMER AUTOMATIC VENDING COMPANY PORTLAND, OR

SEPTEMBER 2022

TABLES

									i ordana, c	Jiogon												
Analyte	Portland Harbor CULs ¹ (µg/kg)	JSCS SLVs ² (µg/kg)			B-1 {/kg)			CE (µg,			CB-3 (µg/kg)	CB-4 (µg/kg)			B-5 g/kg)		CB-6 (µg/kg)	CB-7 (µg/kg	g)
Sample Date			12/17/2	20	12/14/2	21	12/17/2	0	12/16/2	1	12/17/2	20	12/17/	20	12/17/2	0	12/14/2	1	12/17/2	20	12/17/2	20
Petroleum Hydrocarbons																					•	
Gasoline-Range Hydrocarbons	NE	NE	33,200		-		10,100	J	-		56,000	U	14,200	U	11,600	U			31,100		83,900	U
Diesel-Range Hydrocarbons	91,000	NE	49,900	U	524,000	U	97,800	U	957,000	U	96,100	U	495,000	U	97,600	U	1,590,000	U	97,300	U	49,600	U
Oil-Range Hydrocarbons	NE	NE	1,960,000		5,610,000		3,120,000		5,910,000		3,200,000		4,780,000		3,450,000		24,300,000		2,480,000		2,590,000	
Metals/Inorganics																						
Antimony	NE	64,000	956	J	4,220	J	1,070		2,400		1,030		2,710	Q-42	2,230		2,650	J	593	J	1,280	
Arsenic	3,000	7,000	1,590		4,780	J	3,650		4,530		1,770		3,890		1,780		4,630		2,300		4,270	
Beryllium	NE	NE	101	U	535	U	100	U	291	J	100	U	106	U	104	U	308.0	U	108	U	104	U
Cadmium	510	1,000	265		754	J	1,180		872		239		2,490		1,180		1,280		1,240		1,150	
Chromium, total	NE	111,000	30,400		127,000		27,600		49,600		29,500		276,000	Q-42	41,200		119,000		16,700		34,400	
Copper	359,000	149,000	41,000		171,000		87,800		97,400		51,600		153,000		107,000		160,000		92,000		244,000	
Lead	196,000	17,000	19,000		42,000		29,000		65,200		46,900		67,500		71,800		107,000		30,800		24,000	
Mercury	85	70	40.2	U	214	U	40.1	U	343		53.1	J	416		148		249		84.3	J	197	
Nickel	NE	48,600	13,800		37,900		22,300		21,000		12,000		33,800		21,200		53,300		17,500		62,900	
Selenium	NE	2,000	503	U	2,670	U	501	U	965	U	500	U	547	U	520	U	1,540	U	538	U	519	U
Silver	NE	5,000	101	U	535	U	100	U	205	J	148	J	333		273		350	J	183	J	175	J
Zinc	459,000	459,000	224,000		536,000		383,000		549,000		5,860,000		661,000		1,620,000		1,600,000		253,000		1,050,000	
Butyltins																			•			
Monobutyltin	NE	NE	4.1	U			1.9	U			2.3	U	5.1	U	4.2	U			4.0	U	3.4	U
Dibutyltin	NE	NE	29				9.7		-		1.2	U	5.1	U	4.2	U	-		4.0	U	3.4	U
Tributyltin	3,080	2.3	23				2.0	U			2.5	U	5.5	U	4.5	U			4.3	U	3.7	U
Tetrabutyltin	NE	NE	2.2	U			1.0	U			1.2	U	2.8	U	2.2	U			2.2	U	1.8	U
PCBs Aroclors			-				•				•						•		•		•	
Aroclor 1016	NE	530	9.13	U	10.2	U	8.47	U	18.7	U	8.16	U	9.26	U	96.2	U	31.1	U	19.6	U	9.66	U
Aroclor 1221	NE NE	NE	9.13	U	10.2	U	8.47	U	18.7	U	8.16	U	9.26	U	96.2	U	31.1	U	19.6	U	19.3	U
Aroclor 1232	NE	NE	18.3	U	10.2	U	16.9	U	18.7	U	8.16	U	9.26	U	96.2	U	31.1	U	60.4	U	19.3	U
Aroclor 1242	NE	NE	9.13	U	10.2	U	8.47	U	38.2		111	P-12	32.8	P-12	96.2	U	31.1	U	19.6	U	9.66	U
Aroclor 1248	NE	1,500	9.13	U	10.2	U	8.47	U	18.7	U	8.16	U	9.26	U	96.2	U	31.1	U	19.6	U	19.3	U
Aroclor 1254	NE	300	9.13	U	11.6	J	12.4	J	91.9		45.6	P-12	311	P-12	1,480		194		40.0	P-12		P-12
Aroclor 1260	NE	200	9.13	U	10.2	U	15.2	J	39.7		23.6	P-12	43.3	P-12	96.2	U	55.1		21.7	P-12		P-12
Total PCBs			-		•		•				•		•						•		•	
1																						
0			0	U	11.6		27.6		170		180		387		1,480		249		61.7		103	
0 1/2DL	9	0.39	0 36.5	U	11.6 42.2		27.6 53.0		170 207		180 197		387 406		1,480 1,769		249 327		61.7 131		103 142	



Analyte	Portland Harbor CULs ¹ (μg/kg)	JSCS SLVs ² (µg/kg)		CB (µg/			CB (µg/		CB-3 (µg/kg	;)	CB-4 (µg/kg)			B-5 /kg)	CB-6 (µg/kg	·)	CB-7 (µg/kg)
Sample Date			12/17/2	20	12/14/21	12/17/2	20	12/16/21	12/17/2	20	12/17/20	12/17	/20	12/14/21	12/17/2	20	12/17/20
Chlorinated Herbicides																	
Dalapon	NE	NE	230	U		110	U		130	U	260 U	230	U		230	U	180 U
Dicamba	NE	NE	15	U	-	6.9	U		8.2	U	17 U	15	U		15	U	12 U
MCPA	NE	NE	33,000	U	-	15,000	U		18,000	U	38,000 U	33,000	U	-	33,000	U	26,000 U
Dichlorprop	NE	NE	150	U	-	72	U	-	85	U	180 U	150	U	-	150	U	120 U
2,4-D	NE	NE	150	U	-	71	U	-	84	U	180 U	150	U	-	150	U	120 U
2,4,5-TP (Silvex)	NE	NE	11	U	-	15	J	-	9	J, P	25 J	11	U		11	U	9.1 U
2,4,5-T	NE	NE	12	U	-	5.4	U	-	6.4	U	13 U	12	U		12	U	9.2 U
2,4-DB	NE	NE	150	U		68	U		81	U	170 U	150	U		150	U	120 U
Dinoseb	NE	NE	60	U	-	28	U		33	U	70 U	60	U		60	U	48 U
MCPP	NE	NE	21,000	U	-	9,700	U		11,000	U	24,000 U	21,000	U	-	21,000	U	16,000 U
Organochlorine Pesticides						.									_		
α - BHC	NE	NE	16.5	U		7.84	U	-	9.30	U	9.62 U	9.80	U		4.72	U	4.33 U
β - BHC	NE	NE	16.5	U	-	7.84	U		9.30	U	9.62 U	28.40	U		13.7	U	8.66 U
γ - BHC (Lindane)	5	4.99	16.5	U		7.84	U	-	9.30	U	9.62 U	9.80	U	_	4.72	U	4.33 U
δ - BHC	NE	NE	16.5	U	-	7.84	U		9.30	U	9.62 U	9.80	U		9.43	U	4.33 U
Heptachlor	NE	10	16.5	U	-	7.84	U		9.30	U	9.62 U	9.80	U		4.72	U	4.33 U
Heptachlor epoxide	NE	16	16.5	U	-	7.84	U	-	9.30	U	9.62 U	9.80	U	-	9.43	U	4.33 U
Aldrin	2	40	16.5	U	-	7.84	U	-	9.30	U	9.62 U	9.80	U	-	9.43	U	4.33 U
Chlordane	NE	0.37	496	U	-	235	U	-	279	U	288 U	294	U	1	142	U	130 U
Endosulfan I	NE	NE	16.5	U	-	7.84	U	1	9.3	U	9.62 U	9.80	U	-	4.72	U	4.33 U
Endosulfan II	NE	NE	16.5	U	-	7.84	U	1	9.3	U	9.62 U	9.80	U	-	4.72	U	4.33 U
Endosulfan sulfate	NE	NE	16.5	U		7.84	U	-	9.3	U	9.62 U	9.80	U		4.72	U	4.33 U
DDE	226	0.33	16.5	U	1	7.84	U	1	9.30	U	9.62 U	19.60	U	ı	9.43	U	4.33 U
DDD	114	0.33	47.9	U	-	15.7	U		9.30	U	9.62 U	9.80	U	-	4.72	U	4.33 U
DDT	246	0.33	33.1	U		7.84	U		9.30	U	19.2 U	50.0	U		9.43	U	8.66 U
DDT - total (DDE+DDD+DDT)	NE	0.33	97.5	U	-	31.4	U		27.9	U	38.4 U	79.4	U		23.6	U	17.3 U
Dieldrin	0.007	0.0081	16.5	U	_	7.84	U	-	9.30	U	9.62 U	19.6	U		4.72	U	4.33 U
Endrin	NE	207	16.5	U		7.84	U		9.30	U	19.2 U	9.80	U		4.73	U	4.33 U
Endrin aldehyde	NE	NE	33.1	U		15.7	U		9.30	U	9.62 U	9.80	U		4.82	U	4.33 U
Endrin ketone	NE	NE	33.1	U	_	15.7	U	-	9.3	U	9.62 U	9.8	U		4.72	U	4.33 U
Methoxychlor	NE	NE	49.6	U	_	23.5	U	_	27.9	U	28.8 U	29.4	U		14.2	U	13.0 U
Toxaphene	NE	NE	496	U		235	U	_	279	U	288 U	294	U		142	U	130 U

Page 2 of 5



Analyte	Portland Harbor CULs ¹ (µg/kg)	JSCS SLVs ² (µg/kg)		CE (µg/				CB- (µg/			CB-3 (µg/kg		CB-4 (µg/k			CB (µg/			CB-6 (µg/kį		CB-7 (µg/kg)
Sample Date			12/17	/20	12/14/	21	12/17/	20	12/16/2	21	12/17/	20	12/17/	′20	12/17/	/20	12/14/2	21	12/17/	20	12/17/20
VOCs ³																					
4-Isopropyltoluene	NE	NE	448				76.3	J			56.0		142	U	116	U			377		83.9 U
1,2,4-TMB	NE	NE	144	U	-		160				56.0	U	142	U	116	U			552		122
1,3,5-TMB	NE	NE	144	U			86.1				56.0	U	142	U	116	U			194		83.9 U
m,p-Xylene	NE	NE	144	U			70.6	U	_		56.0	U	142	U	116	U			220	J	83.9 U
o-Xylene	NE	NE	71.8	U			35.3	J	_		28.0	U	70.8	U	57.8	U			111	J	41.9 U
Toluene	NE	NE	207				110	J	-		56.0	U	142	U	116	U			552		122 J
Vinyl Chloride	NE	NE	71.8	U			35.3	U	_		28.0	U	70.8	U	57.8	U			71.4	U	41.9 U
Organonitrogen Compounds																					
Carbazole	NE	1,600	5,290	U	4,150		1,240	U	531	J	1,300	U	685	U	593	U	1,240	U	531	U	517 U
Oxygen-Containing Compounds	_1		·					<u>'</u>						1		.					
Dibenzofuran	NE	NE	937	U	361	J	828	U	254	U	867	U	455	U	394	U	827	U	353	U	344 U
Phthalate Esters								•				•				1				•	
Dimethylphthalate	NE	NE	9,370	U	2,780	U	8,280	U	2,540	U	8,670	U	4,550	U	3,840	U	8,270	U	3,530	U	3,440 U
Di-n-butylphthalate	NE	60	9,370	U	2,780	U	8,280	U	2,540	U	8,670	U	4,550	U	3,840	U	8,270	U	3,530	U	3,440 U
Butylbenzylphthalate	NE	NE	9,370	U	2,780	U	8,280	U	2,540	U	8,670	U	4,550	U	3,840	U	8,270	U	3,530	U	3,440 U
Di-n-octylphthalate	NE	NE	9,370	U	2,780	U	8,280	U	2,540	U	8,670	U	4,550	U	3,840	U	8,270	U	3,530	U	3,440 U
bis(2-Ethylhexyl)phthalate	135	330	14,100	U	4,180	U	12,400	U	9,250		13,000	U	10,300	J	6,940	J	12,400	U	13,600		12,900
PAHs																·					
Naphthalene ⁴	NE	561	336	J	558	U	154	J	509	U	112	U	283	U	231	U	1,660	U	286	J	168 J
2-Methylnaphthalene	NE	200	1,880	U	558	U	1,660	U	509	U	1,740	U	914	U	732	U	1,660	U	709	U	691 U
Acenaphthylene	NE	200	937	U	278	U	828	U	254	U	867	U	455	U	394	U	827	U	353	U	344 U
Acenaphthene	NE	300	957	J, Q-42	387	J	828	U	254	U	867	U	455	U	394	U	827	U	353	U	344 U
Fluorene	NE	536	937	U	412	J	828	U	254	U	867	U	455	U	394	U	827	U	353	U	344 U
Phenanthrene	NE	1,170	17,200		11,500		2,490		1,830		1,620		687	J	649	J	1,130	J	353	U	344 U
Anthracene	NE	845	3,070		1,780		828	U	351		867	U	455	U	394	U	827	U	353	U	344 U
Fluoranthene	NE	2,230	41,200		28,400		7,240		3,970		3,910		1,320		1,320		2,140	J	353	U	344 U
Pyrene	NE	1,520	37,400		26,200		6,710		3,770		3,620		1,410		1,430		2,460		353	U	344 U
Benzo(a)anthracene	NE	1,050	14,400		10,300		3,650		1,500		1,730	J	572	J	665	J	1,480	J	353	U	344 U
Chrysene	NE	1,290	26,600		17,300		4,640		2,140		2,710		1,080		1,290		2,770		353	U	344 U
Benzo(b)fluoranthene	NE	NE	27,300	M-05	22,800		4,590	M-05	2,410		3,160	M-05	1,400	M-05	1,400	M-05	1,980	J	531	U	517 U
Benzo(k)fluoranthene	NE	13,000	18,600		9,660		3,690	M-05	1,120		2,490	J	1,020	J	954	J	1,240	U	531	U	517 U
Benzo(a)pyrene	NE	1,450	21,400		15,300		4,160		1,880		2,760		1,220	J	665	J	2,230	J	353	U	344 U
Indeno(1,2,3-cd)pyrene	NE	100	21,100		13,300		2,870		1,370		1,740		760	J	647	J	1,010	J	353	U	344 U
Dibenz(a,h)anthracene	NE	1,300	2,900		2,720		828	U	346	J	867	U	384	U	394	U	827	U	353	U	344 U
Benzo(g,h,i)perylene	NE	300	21,100		13,300		2,970		1,360		1,740		580	J	628	J	1,330	J	353	U	344 U



Analyte	Portland Harbor CULs ¹ (µg/kg)	JSCS SLVs ² (µg/kg)		CE (µg,	3-1 /kg)		CE (µg,	3-2 /kg)	CB-3 (µg/kg)	CB-4 (µg/kg)		_	B-5 (/kg)	CB-6 (µg/kg)	CB-7 (µg/kg)
Sample Date			12/17/	20	12/14/21	12/17/20	0	12/16/21	12/17/2	20	12/17/20	12/17	/20	12/14/21	12/17/2	20	12/17/20
cPAHs	774	NE	31,004		22,907	5,656		2,781	3,902		1,661	1,705		3,111	508		495
Total PAHs	1	_				•		1				1		T			
0	_		253,563		173,359	42,164		22,047	23,860		9,781	10,203		16,530	286		168
1/2DL	23,000	NE	255,440		174,056	45,064		22,937	28,574		11,517	11,700		20,878	3,555		3,353
DL			257,317		174,753	47,964		23,827	33,407		14,167	13,988		25,225	7,533		7,229
Chlorinated Dioxins and Furans																	
2,3,7,8,-TCDD (Toxicity Equivalence Quotient)	1.00E-02	NE	4.29E-02		5.71E-02	2.12E-02		1.24E-01	2.61E-02		1.19E-01	9.20E-02		3.91E-01	2.79E-02		2.26E-02
2,3,7,8,-TCDD	2.00E-04	9.10E-06	1.28E-02	U	3.87E-03	2.76E-03	J	3.46E-03	4.20E-03	U	5.83E-03 U	3.80E-03	U	4.79E-03	5.91E-03	U	5.69E-03 U
2,3,7,8,-TCDF	4.07E-04	7.70E-04	1.14E-02	U	2.83E-03	4.04E-03	U	5.48E-03	5.80E-03	J, K	3.99E-02	1.27E-03		1.60E-02	7.65E-03	U	7.52E-03 U
1,2,3,7,8,-PeCDD	2.00E-04	2.60E-03	1.44E-02	J	1.98E-02	6.63E-03	J, K	2.64E-02	9.06E-03	J, K	2.15E-02 J	2.09E-02	J, K	7.01E-02	1.25E-02	U	7.74E-03 U
1,2,3,7,8,-PeCDF	NE	2.60E-03	5.61E-03	U	2.68E-03	3.20E-03	B, J	4.15E-03	4.47E-03	J, K	3.65E-02 J, K	9.71E-03	J, K	1.35E-02	7.69E-03	U	5.42E-03 U
2,3,4,7,8,-PeCDF	3.00E-04	3.00E-05	5.35E-03	U	5.20E-03	4.42E-03	J,K	1.01E-02	5.28E-03	J, K	6.72E-02 J	1.38E-02	J, K	5.57E-02	6.63E-03	U	5.26E-03 U
1,2,3,4,7,8-HxCDD	NE	NE	1.10E-02	U	2.19E-02	5.09E-03	J	4.22E-02	7.38E-03	J,K	2.53E-02 J	1.90E-02	J,K	1.29E-01	1.02E-02	U	6.97E-03 U
1,2,3,6,7,8,-HxCDD	NE	NE	1.14E-02	J, K	3.98E-02	1.31E-02	J, K	1.02E-01	1.30E-02	J, K	7.01E-02 J	6.09E-02	J	3.62E-01	9.95E-03	U	7.24E-03 U
1,2,3,7,8,9,-HxCDD	NE	NE	2.69E-02	J, K	3.54E-02	9.82E-03	J	5.37E-02	1.37E-05	J	5.30E-02 J	4.82E-02	J	1.63E-01	1.02E-02	U	7.19E-03 U
1,2,3,4,7,8,-HxCDF	4.00E-04	2.70E-03	7.55E-03	J	9.83E-03	5.03E-03	J	1.67E-02	7.59E-03	J	6.92E-02 J	2.41E-02	J	1.08E-01	6.25E-03	J	6.30E-03 J, K
1,2,3,6,7,8,-HxCDF	NE	2.70E-03	6.11E-03	U	8.17E-03	4.24E-03	J, K	1.76E-02	6.05E-03	J, K	6.20E-02 J	1.85E-02	J, K	1.00E-01	5.57E-03	U	6.47E-03 U
1,2,3,7,8,9,-HxCDF	NE	2.70E-03	9.38E-03	U	4.46E-03	3.49E-03	U	6.45E-03	5.03E-03	U	2.04E-02 J, K	6.10E-03	J, K	5.62E-02	7.18E-03	U	8.84E-03 U
2,3,4,6,7,8,-HxCDF	NE	2.70E-03	7.72E-03	J, K	1.21E-02	5.41E-03	J, K	2.64E-02	5.38E-03	J, K	6.03E-02 J, K	2.08E-02	J	1.61E-01	5.95E-03	U	6.74E-03 U
1,2,3,4,6,7,8,-HpCDD	NE	6.90E-01	2.94E-01		1.17E+00	3.42E-01		4.18E+00	3.00E-01		1.99E+00	2.63E+00		1.19E+01	5.70E-02	J	1.08E-01 J
1,2,3,4,6,7,8,-HpCDF	NE	6.90E-01	5.66E-02	J ,K	1.36E-01	4.96E-02	J	4.83E-01	5.90E-02	J	5.70E-01	3.88E-01		3.00E+00	1.81E-02	J ,K	2.89E-02 J
1,2,3,4,7,8,9,-HpCDF	NE	6.90E-01	1.69E-02	U	9.47E-03	4.07E-03	U	2.69E-02	8.53E-03	U	4.53E-02 J, K	2.50E-02	J	2.14E-01	9.14E-03	U	9.90E-03 U
OCDD	NE	2.30E+01	3.55E+00		1.71E+01	4.70E+00		5.69E+01	3.32E+00		2.01E+01	3.71E+01		1.20E+02	4.54E-01		8.20E-01
OCDF	NE	2.30E+01	9.73E-02	J	2.76E-01	1.08E-01	J	8.63E-01	1.12E-01		1.16E+00	7.94E-01		6.41E+00	2.79E-02	J	4.33E-02 J
Total tetrachlorinated dioxins	NE	NE	1.28E-02	U	3.25E-02	2.76E-03	J	2.62E-02	4.20E-03	J	2.14E-02 J, K		J	3.78E-02	5.91E-03	U	5.69E-03 U
Total pentachlorinated dioxins	NE	NE	8.07E-02	J, K	1.10E-01	2.28E-02	J, K	1.37E-01	3.43E-02	J, K	1.31E-01 J, K	1.20E-01	J, K	2.90E-01	1.25E-02	U	7.74E-03 U
Total hexachlorinated dioxins	NE	NE	1.80E-01	J, K	4.16E-01	1.06E-01	J, K	4.16E-01	1.25E-01	J, K	5.84E-01 J, K	5.29E-01	J, K	8.20E-01	9.95E-03	U	3.23E-02 J, K
Total heptachlorinated dioxins	NE	NE	6.24E-01		2.42E+00	6.93E-01		8.51E+00	6.31E-01		3.98E+00	5.27E+00		3.73E+01	1.05E-01	J	2.18E-01 J
Total tetrachlorinated furans	NE	NE	1.14E-02	U	7.50E-02	1.93E-02	J, K	1.12E-01	1.77E-02	J, K	7.75E-01 J, K		J, K	3.19E-01	7.65E-03	U	7.52E-03 U
Total pentachlorinated furans	NE	NE	3.09E-02	J, K	9.01E-02	5.71E-02	J, K	2.36E-01	6.67E-02	J, K	7.17E-01 J, K	2.03E-01	J, K	1.22E+00	5.87E-03	B, J ,K	1.62E-02 J, K
Total hexachlorinated furans	NE	NE	7.39E-02	J, K	2.61E-01	8.53E-02	J, K	1.10E+00	9.16E-02	J, K	8.59E-01 J, K	5.28E-01	J, K	7.44E+00	1.56E-02	B, J ,K	4.16E-02 J, K
Total heptachlorinated furans	NE	NE	1.41E-01	J, K	3.61E-01	1.37E-01	J, K	1.49E+00	1.49E-01	J, K	1.48E+00 J, K	1.19E+00	J	1.69E+01	5.13E-02	J, K	6.93E-02 J

Page 4 of 5



TABLE 1

Summary of Sediment Sample Chemical Analytical Results Former Automatic Vending Company 5001 North Lagoon Avenue Portland, Oregon

Analyte	Portland Harbor CULs ¹ (µg/kg)	JSCS SLVs ² (µg/kg)		3-1 /kg)		3-2 /kg)	CB-3 (µg/kg)	CB-4 (µg/kg)		B-5 (/kg)	CB-6 (µg/kg)	CB-7 (µg/kg)
Sample Date			12/17/20	12/14/21	12/17/20	12/16/21	12/17/20	12/17/20	12/17/20	12/14/21	12/17/20	12/17/20

Page 5 of 5

Notes:

- 1. Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020
- 2. Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005
- 3. Only detected VOCs are listed.
- 4. Naphthalene was analyzed by Method 8260D and 8270E-SIM in 2020. Method 8260D resulted in lower detection limits, and therefore these results are shown.
- B: The target analyte was detected in the associated blank.
- J: Value is estimated.
- K: Estimated maximum possible concentration.

M-05: Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.

NE: not established

- P: The percent RPD between the primary and confirmation column/detector is greater than 40 percent. The lower value has been reported.
- P-12: Result estimated due to the presence of multiple PCB Aroclors and/or PCB congeners not defined as Aroclors.
- Q-42: Matrix spike and/or duplicate analysis was performed on this sample. Percent recovery or RPD for this analyte is outside laboratory control limits.
- U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than regulatory screening levels.

Italics indicate detection limit is greater than EPA CULs and/or JSCS SLVs.

: not analyzed

				Portland	d, Oregon							
Analyte	Portland Harbor CULs ¹ (µg/L)	JSCS SLVs ² (µg/L)	SW-1(031 (µg/L		,	(032821) ug/L)	SW-1(042 (µg/L	<i>'</i>	SW-1(052 (µg/l	,	SW-1(0528 (μg/L)	
TSS	NE	NE	-		8,000	H-06, Q-42	13,000		29,000		21,400	
Petroleum Hydrocarbons												
Gasoline-Range Hydrocarbons	NE	NE	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Diesel-Range Hydrocarbons	NE NE	NE NE	118	U	95.2	U	1,010	F-24	340	F-17	93.5	U
Oil-Range Hydrocarbons	NE	NE	235	U	190	U	2,910	F-24	508	F-24	187	U
Metals/Inorganics								,		,		
, ,					0.1.10		4.50		0.740			
Arsenic Cadmium	0.018 NE	0.045 0.094	0.207 0.0347		0.143 0.0379		1.70 0.0713	J	0.549 0.0632		0.357 0.0523	
Chromium	100	100	0.500	U	0.500	U	1.85		5.49		5.54	
Mercury	NE	0.77	0.0400	U	0.0400	U	0.0400	U	0.0400	U	0.0400	U
Zinc	36.5	36	79.5		45.1		140		104		72.9	
Butyltins												
Monobutyltin	NE	NE	0.081		0.061		0.0024	U	0.0026	U		
Dibutyltin	NE	NE	0.002	U	0.0016	U	0.0018	U	0.0019	U		
Tributyltin	0.063	0.072	0.0016	U	0.0012	U	0.0014	U	0.0015	U	0.0050	U
Tetrabutyltin	NE	NE	0.0022	U	0.0018	U	0.0020	U	0.0021	U		
PCBs Aroclors												
Aroclor 1016	NE	0.96	0.0123	U	0.0200	U	0.0189	U	0.0213	U	0.0189	U
Aroclor 1221	NE	0.034	0.0247	U	0.0200	U	0.0189	U	0.0426	U	0.0189	U
Aroclor 1232	NE	0.034	0.0123	U	0.0200	U	0.0189	U	0.0213	U	0.0189	U
Aroclor 1242 Aroclor 1248	NE NE	0.034 0.034	0.0123 0.0123	U	0.0200 0.0200	U U	0.0189 0.0189	U	0.0213	U	0.0189	U
Aroclor 1248 Aroclor 1254	NE NE	0.034	0.0123	U	0.0200	U	0.0189	U	0.0213	J	0.0189	J
Aroclor 1260	NE	0.034	0.0123	U	0.0200	U	0.0189	U	0.0213	U	0.0189	U
Aroclor 1262	NE	NE			_		-				0.0189	U
Aroclor 1268	NE	NE			_		-		-		0.0189	U
Total PCBs 0			0.000	U	0.000	U	0.000	U	0.0741		0.0113	
1/2DL	0.0000064	0.000064	0.0493	U	0.0700	U	0.0662	U	0.149	U	0.0869	
DL			0.0985	U	0.140	U	0.132	U	0.223		0.163	
VOCs												
1,1,1,2- Tetrachloroethane	NE	2.5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,1,1- Trichloroethane (TCA)	NE	11	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,1,2,2- Tetrachloroethane	NE	0.33	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.250	U
1,1,2- Trichloroethane	NE	1.2	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.250	U
1,1- Dichloroethane 1,2,3- Trichloropropane	NE NE	47 0.0095	0.0100 0.0500	U	0.0100 0.0500	U U	0.0100 0.0500	U	0.0100 0.0500	U	0.200	U
1,2- Dichloroethane (EDC)	NE NE	0.0095	0.0300	U	0.0300	U	0.0300	U	0.0300	U	0.200	U
cis-1,2-Dichloroethlyene	NE	61	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.200	U
1,2- Dichloropropane	NE	0.97	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.250	U
1,2- Dibromoethane (EDB)	NE	0.033	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.250	U
2- Butanone (MEK) 2- Chloroethyl Vinyl Ether	NE NE	7,100 NE	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U
2- Hexanone	NE	99	5.00	U	5.00	U	5.00	U	10.0	U	5.00	U
4- Methyl-2-Pentanone (MIBK)	NE	170	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U
Acetone	NE	1,500	20.5		10.0	U	89.4		21.4		20.0	U
Acrolein Acrylonitrile	NE NE	0.042 0.12	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Bromochloromethane	NE NE	NE	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
Bromodichloromethane	NE	1.1	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
Bromoform	NE	8.5	0.500	U	0.500	U	1.00	U	1.00	U	0.500	U
Bromomethane Carbon Disulfide	NE NE	8.7 0.92	5.00 5.00	U	5.00 5.00	U U	5.00 5.00	U	5.00 5.00	U	5.00 5.00	U
Carbon Disulfide Carbon Tetrachloride	NE NE	0.92	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
Chlorobenzene	NE	50	0.250	U	0.250	U	0.250	U	0.250	U	0.250	U
Chlorodibromomethane	NE	0.79	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
Chloroform	NE NE	23	5.00	U	5.00	U	5.00	U	5.00	U	25.0	U
Chloroform Chloromethane	NE NE	0.17 2.1	0.500 5.00	U	0.500 2.50	U U	0.500 2.50	U	0.0500 4.04	U	0.500 2.50	U
cis-1,2-dichloroethylene	NE	590	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.200	U
cis-1,3-Dichloropropene	NE	0.055	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.500	U
Dibromomethane	NE	61	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
Dichlorodifluoromethane Iodomethane (Methyl Iodide)	NE NE	390 NE	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
Isopropylbenzene	NE NE	660	0.500	U	0.500	U	0.500	U	0.500	U	0.500	U
Methylene chloride	NE	8.9	5.00	U	5.00	U	5.00	U	5.00	U	5.00	U
Styrene	NE	100	0.500	U	0.500	U	1.00	U	0.500	U	0.500	U
trans-1,4-Dichloro-2-butene	NE NE	7,100	1.00	11	1.00	11	1 00	11	1 00	U	1.00	
Trichlorofluoromethane Vinyl Acetate	NE NE	1,300 16	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Benzene	NE	1.2	0.500	U	0.0500	U	0.0500	U	0.0500	U	0.100	U
Ethylbenzene	7.3	7.3	0.500	U	0.0500	U	0.0500	U	0.0500	U	0.250	U
-				-			0.400	- 11	0.100		0.500	U
m,p-Xylene	NE	1.8	0.147	J	0.100	U	0.100	U	0.100	U		
m,p-Xylene o-Xylene	NE NE	1.8 13	0.0588	J	0.0500	U	0.0500	U	0.0500	U	0.250	U
m,p-Xylene	NE NE NE	1.8 13 200	0.0588 0.206		0.0500 0.1500		0.0500 0.1500		0.0500 0.1500	_	0.250 0.750	
m,p-Xylene o-Xylene Xylenes (total)	NE NE	1.8 13	0.0588	J	0.0500	U U	0.0500	U U	0.0500	U	0.250	U



Analyte	Portland Harbor CULs ¹ (µg/L)	JSCS SLVs ² (µg/L)	SW-1(031 (μg/L	,	SW-1(03 (µg/	•	SW-1(042- (μg/L)	,	SW-1(0524 (μg/L)	121)	SW-1(0528 (μg/L)	,
trans-1,2-Dichloroethene trans-1,3-Dichloropropene	NE NE	100 0.055	0.0100 0.0100	U	0.0100 0.0100	U U	0.0100 0.0100	U	0.0100 0.0100	C C	0.200 0.200	U
Trichloroethene (TCE)	NE NE	0.17	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U
Vinyl Chloride	NE	0.015	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U
SVOCs - Halogenated Compounds			0.050		0.050		0.050		0.050		0.050	
1,2-Dichlorobenzene 1,3-Dichlorobenzene	NE NE	49 14	0.250 0.250	U	0.250 0.250	U	0.250 0.250	U	0.250 0.250	U	0.250 0.250	U
1,4-Dichlorobenzene 1,2,4-Trichlorobenzene	NE NE	2.8 8.2	0.250 1.00	U	0.250 1.00	U	0.250 1.00	U	0.250 1.00	U	0.250 1.00	U
Hexachlorobenzene	0.000029	0.00029		U	-	U	-	U		U	0.00935	U
2-Chloronaphthalene Hexachloroethane	NE NE	490 3.3									0.00935 0.0234	U
Hexachlorobutadiene	NE	0.86	2.50	U	2.50	U	2.50	U	2.50	U	0.0234	U
Hexachlorocyclopentadiene 2,2'-oxybis(1-chloropropane)	NE NE	5.2 0.95									0.0467 0.0234	U U
Bis-(2-chloroethoxy) methane	NE	NE			_		-				0.0234	U
Bis-(2-chloroethyl) ether 4-Chlorophenyl-phenyl ether	NE NE	0.06									0.0234 0.0234	U U
4-bromophenyl-phenyl ether	NE	NE									0.0234	U
3,3'-Dichlorobenzidine 4-Chloroaniline	NE NE	0.028 150					-				0.467 0.0234	U
Oxygen-Containing Compounds			<u></u>									
Benzoic Acid	NE	42					_				1.17	U
Benzyl Alcohol	NE	8.6			-						0.0935	U
Dibenzofuran Isophorone	NE NE	3.7 71	0.0460	U	0.0102	U	0.388	U	0.190	U	0.00935 0.0234	U
Phthalate Esters												
Dimethylphthalate	NE	3	0.920	U	0.204	U	7.77	U	3.81	U	0.187	U
Diethylphthalate	NE	3	0.920	U	0.204	U	7.77	U	3.81	U	0.187	U
Di-n-butylphthalate Butylbenzylphthalate	NE NE	3	0.920 0.920	U	0.204 0.204	U	7.77 7.77	U	3.81 3.81	U	0.187 0.187	U
Di-n-octylphthalate	NE	3	0.920	U	0.204	U	7.77	U	3.81	U	0.187	U
bis(2-Ethylhexyl)phthalate	NE	2.2	0.920	U	0.204	U	7.77	U	3.81	U	0.212	J
PAHs			1				T		T			
Naphthalene 2-Methylnaphthalene	12 NE	0.2	0.0920 0.0920	U	0.0204 0.0204	U	0.777 0.777	U	0.381 0.381	U	0.0187 0.0187	U
Acenaphthylene	NE	0.2	0.0460	U	0.0102	U	0.388	U	0.190	U	0.00935	U
Acenaphthene Fluorene	NE NE	0.2	0.0460 0.0460	U	0.0102 0.0102	J	0.388 0.388	U	0.190 0.190	U	0.00935 0.00935	U
Phenanthrene	NE	0.2	0.0460	U	0.0117	J	0.388	U	0.190	U	0.0435	
Anthracene Fluoranthene	NE NE	0.2	0.0460 0.0460	U	0.0102 0.0102	U	0.388 0.388	U	0.190 0.190	U	0.00935 0.0598	U
Pyrene	NE 0.004.0	0.2	0.0460	U	0.0106	J	0.388	U	0.194	J	0.0621	
Benzo(a)anthracene Chrysene	0.0012 0.0013	0.018	0.0460 0.0460	U	0.0102 0.0102	U	0.388 0.388	U	0.190 0.190	U	0.0216 0.0406	J
Benzo(b)fluoranthene	0.0012	0.018	0.0690	U	0.0172	J	0.583	U	0.286	U	0.0380	
Benzo(k)fluoranthene Benzo(a)pyrene	0.0013 0.00012	0.018 0.018	0.0690 0.0690	U	0.0153 0.0176	J	0.583 0.583	U	0.286 0.286	U	0.0160 0.0350	J
Indeno(1,2,3-cd)pyrene	0.0012	0.018	0.0460	U U	0.0102	U	0.388	U U	0.190	U U	0.0215	U
Dibenz(a,h)anthracene Benzo(g,h,i)perylene	0.00012 NE	0.018	0.0460 0.0460	U	0.0102 0.0102	U	0.388 0.388	U	0.190 0.190	U	0.00935 0.0294	
cPAHs Total PAHs	0.00012	NE	0.128	U	0.0309		1.08	U	0.53	U	0.0510	
0			0.000	U	0.000	U	0.000	U	0.194		0.368	
1/2DL DL	NE	NE	0.472 0.943	U	0.141 0.215		3.98 7.96	U	2.05 3.90	U	0.410 0.452	
Chlorinated Dioxins and Furans			0.545	Ü	0.210		1.50		0.50	Ü	0.402	
2,3,7,8,-TCDD (Toxicity Equivalence Quotient)	5.1E-10	5.1E-09	4.31E-06		5.48E-06		6.59E-06		1.44E-05		3.51E-06	
2,3,7,8,-TCDD 2,3,7,8,-TCDF	NE NE	5.1E-09 NE	1.46E-06 1.68E-06	U U	1.90E-06 1.84E-06	U U	2.02E-06 2.24E-06	U	2.74E-06 3.51E-06	U U	8.01E-07 1.10E-06	U
1,2,3,7,8,-PeCDD	NE NE	NE NE	1.53E-06	U	1.84E-06 1.78E-06	U	2.24E-06 1.68E-06	U	2.56E-06	U	1.10E-06 1.22E-06	U
1,2,3,7,8,-PeCDF 2,3,4,7,8,-PeCDF	NE NE	NE NE	1.53E-06 7.88E-07	U	1.72E-06 1.54E-06	U	1.47E-06 1.32E-06	U U	2.45E-06 2.30E-06	U U	1.03E-06 9.33E-07	U
1,2,3,6,7,8,-HxCDD	NE	NE	1.87E-06	U	2.62E-06	J, K	2.86E-06	U	4.97E-06	U	1.80E-06	U
1,2,3,7,8,9,-HxCDD 1,2,3,4,7,8,-HxCDF	NE NE	NE NE	2.00E-06 9.30E-07	U	2.41E-06 1.16E-06	U U	2.93E-06 1.26E-06	U U	5.01E-06 3.31E-06	U U	1.91E-06 9.60E-07	U U
1,2,3,6,7,8,-HxCDF	NE	NE NE	9.30E-07 9.09E-07	U	1.16E-06	U	1.26E-06 1.31E-06	U	3.11E-06	U	9.45E-07	U
1,2,3,7,8,9,-HxCDF 2,3,4,6,7,8,-HxCDF	NE NE	NE NE	1.46E-06 9.47E-07	U	1.66E-06 1.17E-06	U U	2.10E-06 1.30E-06	U U	5.08E-06 3.44E-06	U U	1.52E-06 9.76E-07	U U
1,2,3,4,6,7,8,-HpCDD	NE NE	NE NE	9.47E-07 1.81E-06	о В, J, K	2.62E-06	J, K	1.30E-06 6.30E-05	U	3.44E-06 3.17E-04	U	9.76E-07 2.09E-05	J
1,2,3,4,6,7,8,-HpCDF 1 2 3 4 7 8 9 -HpCDF	NE NF	NE NE	1.53E-06 1.53E-06	U	2.62E-06 1.88E-06	Ŋ	2.82E-06 2.62E-06	J	2.36E-05 5.58E-06	J	2.61E-06 2.12E-06	J
1,2,3,4,7,8,9,-HpCDF OCDD	NE NE	NE NE	1.53E-06 2.49E-05	О В, J	1.88E-06 4.48E-05	J	2.62E-06 1.22E-03	<u> </u>	6.75E-03	U	2.12E-06 2.93E-04	
OCDF Total totrochlorinated diaving	NE NE	NE NE	2.64E-06	B, J, K	5.39E-06	U	7.91E-06	J	5.62E-05	J	5.25E-06	J
Total tetrachlorinated dioxins Total pentachlorinated dioxins	NE NE	NE NE	2.29E-06 1.53E-06	J, K U	1.90E-06 1.78E-06	U	2.02E-06 1.68E-06	U	2.74E-06 2.56E-06	U	8.01E-07 1.22E-06	U
Total hexachlorinated dioxins	NE	NE	1.31E-05	B, J, K	1.82E-05	J, K	2.86E-06	U	2.95E-05	J	5.35E-06	J, K



Analyte	Portland Harbor CULs ¹ (µg/L)	JSCS SLVs ² (μg/L)	SW-1(031 (µg/L	,	SW-1(03 (µg/	•	SW-1(042- (μg/L)	,	SW-1(052- (μg/L)	,	SW-1(052ε (μg/L)	,
Total heptachlorinated dioxins	NE	NE	3.17E-05	J, K	1.09E-04	J	1.44E-04		7.23E-04		4.87E-05	J
Total tetrachlorinated furans	NE	NE	1.68E-06	U	1.84E-06	U	2.24E-06	U	3.51E-06	U	1.10E-06	U
Total pentachlorinated furans	NE	NE	6.41E-07	U	1.24E-06	U	1.32E-06	U	4.28E-06	J, K	6.80E-07	J, K
Total hexachlorinated furans	NE	NE	1.05E-06	B, J, K	1.89E-06	J, K	3.42E-06	В	2.52E-05	J, K	3.03E-07	J, K
Total heptachlorinated furans	NE	NE	1.81E-06	B. J. K	5.64E-06	J	9.39E-06	Ū	8.49E-05	J	7.02E-06	J, K

Notes:

- Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020
 Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005
 The target analyte was detected in the associated blank.
 F-17: No fuel pattern detected.

- F-24: The chromatographic pattern does not resemble the fuel standard used for quantitation. The diesel result represents carbon range C12 to C24, and the oil result represents >C24 to C40.
- H-06: This samples was analysis outside the recommended holding time.
- J: Value is estimated.
- K: Estimated maximum possible concentration.
- NE: not established
- Q-42: Matrix spike and/or duplicate analysis was performed on this sample. Percent recovery or RPD for this analyte is outside laboratory control limits. U: Not detected. Reporting or detection limit shown.
- Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than regulatory screening level. Italics indicate the laboratory detection limit is greater than the screening level.

-: not analyzed



Analyte	Portland Harbor CULs ¹ (µg/L)	JSCS SLVs ² (µg/L)	=	031821) g/L)	SW-2(032 (μg/L	-	SW-2(042 (µg/L	-	SW-2(052 (μg/L)	-	SW-2(0528 (µg/L)	
TSS	NE	NE	-		5,000	U	8,000		5,000	U	36,800	
Petroleum Hydrocarbons												
Gasoline-Range Hydrocarbons	NE	NE	50.0	U	50.0	U	50.0	U	50.0	U	50.0	U
Diesel-Range Hydrocarbons	NE NE	NE NE	205	F-11, F-15	30.6	F-11	3,460	F-11	2,040	F-11	93.5	U
Oil-Range Hydrocarbons	NE NE	NE NE	502	F-16	187	U	192	U	190	U	187	U
Metals/Inorganics												
Arsenic	0.018	0.045	0.239		0.190		1.14		0.566	J	0.386	
Cadmium	NE	0.094	0.0683		0.0408		0.280		0.130	J	0.0534	
Chromium	100	100	0.500	U	0.500	U	2.64		2.24		1.60	
Mercury	NE 36.5	0.77 36	0.0400 142	U	0.0400 41.7	U	0.0400 703	U	0.0400 312	U	0.0400 40.7	U
Zinc	36.5	36	142		41.7		703		312		40.7	
Butyltins												
Monobutyltin	NE	NE	0.150		0.0025	U	0.0023	U	0.0023	U		
Dibutyltin	NE	NE	0.0017	U	0.0025	U	0.024		0.0017	U		
Tributyltin	0.063	0.072	0.0013	U	0.0025	U	0.0013	U	0.0013	U	0.0050	U
Tetrabutyltin	NE	NE	0.0019	U	0.0025	U	0.0019	U	0.0018	U	-	
PCBs Aroclors												
		T							.			
Aroclor 1016	NE NE	0.96	0.00952	U	0.0187	U	0.0189	U	0.0187	U	0.0189	U
Aroclor 1221	NE NE	0.034	0.00952	U	0.0187	U	0.0189	U	0.0187	U	0.0189	U
Aroclor 1242	NE NE	0.034	0.00952	U	0.0187	U	0.0189	U	0.0187	U	0.0189	U
Aroclor 1242	NE NE	0.034	0.00952	U	0.0187	U	0.0189	U	0.0187	U	0.0189	U
Aroclor 1248 Aroclor 1254	NE NE	0.034	0.00952 0.00952	U	0.0187 0.0187	U	0.0189	U	0.0187 0.0187	U	0.0189	U
Aroclor 1254 Aroclor 1260	NE NE	0.033 0.034	0.00952	U	0.0187	U	0.0189	U	0.0187	U	0.0189 0.0395	U
Aroclor 1260 Aroclor 1262	NE NE	NE	-	U		U		U		-	0.0393	U
Aroclor 1268	NE NE	NE NE	_								0.0189	U
Total PCBs	112									<u> </u>	0.0100	
0			0.000	U	0.000	U	0.000	U	0.000	U	0.0395	
1/2DL	0.0000064	0.000064	0.0333	U	0.0655		0.0662		0.0655		0.115	
DL	7		0.0666	U	0.131	U	0.132	U	0.131	U	0.191	
VOCs		,		•		•		•				
1,1,1,2- Tetrachloroethane	NE	2.5	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,1,1- Trichloroethane (TCA)	NE	11	0.200	U	0.200	U	0.200	U	0.200	U	0.200	U
1,1,2,2- Tetrachloroethane	NE NE	0.33	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.250	U
1,1,2- Trichloroethane	NE NE	1.2 47	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.250	U
1,1- Dichloroethane 1,2,3- Trichloropropane	NE NE	0.0095	0.0100 0.0500	U U	0.0100	U	0.0100 0.0500	U	0.0100	U	0.200 0.500	U
1,2- Dichloroethane (EDC)	NE NE	0.0093	0.0300	U	0.0100	U	0.0300	U	0.0300	U	0.200	U
cis-1,2-Dichloroethlyene	NE NE	61	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.200	U
1,2- Dichloropropane	NE NE	0.97	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.250	U
1,2- Dibromoethane (EDB)	NE	0.033	0.0100	U		U		U				
2- Butanone (MEK)					0.0100		0.0100		0.0100	U		U
	NE	7,100	5.00	U	0.0100 5.00	U	0.0100 5.00	U	0.0100 5.00		0.250	U
2- Chloroethyl Vinyl Ether	NE NE	7,100 NE		U	5.00	-	5.00			U		
			5.00	U	5.00	-	5.00		5.00	U	0.250 5.00	
2- Chloroethyl Vinyl Ether	NE	NE	5.00		5.00	U	5.00	U	5.00	U	0.250 5.00 	U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone	NE NE NE NE	NE 99 170 1,500	5.00 5.00	U	5.00 5.00	U	5.00 5.00	U	5.00 10.0	U U U	0.250 5.00 5.00	U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein	NE NE NE NE	NE 99 170 1,500 0.042	5.00 5.00 5.00 20.0	U U U	5.00 5.00 5.00 10.0	U U U	5.00 5.00 5.00 20.0	U U U	5.00 10.0 5.00 10.0	U U U U	0.250 5.00 - 5.00 5.00 10.0	U U U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile	NE NE NE NE NE NE NE	NE 99 170 1,500 0.042 0.12	5.00 5.00 5.00 20.0 1.00	U U U	5.00 5.00 5.00 10.0 1.00	U U U U	5.00 5.00 5.00 20.0 1.00	U U U U	5.00 10.0 5.00 10.0 1.00	U U U U U U U	0.250 5.00 5.00 5.00 10.0 1.00	U U U U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane	NE	NE 99 170 1,500 0.042 0.12 NE	5.00 5.00 5.00 20.0 1.00 0.500	U U U U	5.00 5.00 5.00 10.0 1.00 0.500	U U U U U U	5.00 5.00 5.00 20.0 1.00 0.500	U U U U U U	5.00 10.0 5.00 10.0 1.00 0.500	U U U U U U U	0.250 5.00 - 5.00 5.00 10.0 - 1.00 0.500	U U U U U U U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane	NE	NE 99 170 1,500 0.042 0.12 NE 1.1	5.00 5.00 5.00 20.0 1.00 0.500 0.500	U U U U U	5.00 5.00 5.00 10.0 1.00 0.500 0.500	U U U U U U U U	5.00 5.00 5.00 20.0 1.00 0.500 0.500	U U U U U U U U U	5.00 10.0 5.00 10.0 1.00 0.500 0.500	U U U U U U U U	0.250 5.00 - 5.00 5.00 10.0 - 1.00 0.500 0.500	U U U U U U U U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform	NE N	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5	5.00 5.00 5.00 20.0 1.00 0.500 0.500 0.500	U U U U U U	5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500	U U U U U U U U	5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00	U U U U U U U U U	5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00	U U U U U U U U U	0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500	U U U U U U U U U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane	NE N	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5	5.00 5.00 5.00 20.0 1.00 0.500 0.500 0.500 5.00	U U U U U U U	5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500 5.00	U U U U U U U U U U U U	5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00	U U U U U U U U U U	5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00	U U U U U U U U U U U U U U U	0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00	U U U U U U U U U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon Disulfide	NE N	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92	5.00 5.00 5.00 20.0 1.00 0.500 0.500 0.500 5.00	U U U U U U U	5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00	U U U U U U U U U U U U U U U U U U U	5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00 5.00	U U U U U U U U U U U U U U U U U U U	5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 5.00	U U U U U U U U U U U U	0.250 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00	U U U U U U U U U U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane	NE N	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51	5.00 5.00 5.00 20.0 1.00 0.500 0.500 0.500 5.00	U U U U U U U	5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500 5.00	U U U U U U U U U U U U	5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00	U U U U U U U U U U	5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00	U U U U U U U U U U U U U U U	0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00	U U U U U U U U U U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride	NE N	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50	5.00 - 5.00 5.00 20.0 - 1.00 0.500 0.500 0.500 5.00 0.500	U U U U U U U U	5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500 5.00 0.500 0.500 0.500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00 5.00 0.500 0.500	U U U U U U U U U U U U U U U	5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 5.00 0.500	U U U U U U U U U U U U U U U U	0.250 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500	U U U U U U U U U U U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene	NE N	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51	5.00 5.00 20.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500	U U U U U U U U U	5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500 5.00 0.500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00 0.500	U U U U U U U U U U U U U U U U U U U	5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 5.00 0.500 0.500	U U U U U U U U U U U U U U U U U U U	0.250 5.00 - 5.00 5.00 10.0 - 1.00 0.500 0.500 0.500 5.00 5.00 0.500 0.500 0.500	U U U U U U U U U U U U U U U U U U U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane	NE N	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79	5.00 5.00 20.0 1.00 0.500 0.500 5.00 5.00 5.00 0.500 0.500 0.500	U U U U U U U U U	5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 5.00 0.500 0.500 0.500		5.00 5.00 5.00 20.0 1.00 0.500 1.00 5.00 5.00 0.500 0.500 0.500 0.500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 5.00 0.500 0.500 0.500 0.500	U U U U U U U U U U U U U U U U U U U	0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500	U U U U U U U U U U U U U U U U U U U
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane	NE N	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500 5.00 0.500	U U U U U U U U U U U U U U U U U U U	5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 5.00 0.500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00 5.00 0.500 0.500 0.500 0.500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 5.00 0.500 0.250 0.500 5.00	U U U U U U U U U U U U U U U U U U U	0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 5.00 0.500 0.250 0.500 25.0	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroform	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500	U U U U U U U U U U U U U U U U U U U	0.250 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 5.00 5.00 5.	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cis-1,2-dichloroethylene cis-1,3-Dichloropropene	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.0100 0.0100		5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.250 0.500 5.00 0.0500 2.50 0.0100 0.0100		0.250 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 5.00 5.00 5.	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 5.00 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.250 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.250 0.500 5.00 0.0500 0.0500 0.0500 0.0500 0.0500		0.250 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 5.00 5.00 5.	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chloroethane Chloroethane Chloroethane Chloroomethane Chloromethane Chloromethane Chloromethane Chloromethane Chloromethane Chloromethane Cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane Dichlorodifluoromethane	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.0100 0.0100		5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.250 0.500 5.00 0.0500 2.50 0.0100 0.0100		0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane Chloroethane Chloroform Chloromethane cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane Dichlorodifluoromethane	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390 NE	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane Chlorotorm Chloromethane cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dichlorodifluoromethane Iodomethane (Methyl Iodide) Isopropylbenzene	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390 NE 660	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 20.0 1.00 0.500 1.00 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane Chlorotorm Chloromethane cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane Dichlorodifluoromethane lodomethane (Methyl Iodide) Isopropylbenzene Methylene chloride	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390 NE 660 8.9	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500		5.00 5.00 10.0 1.00 0.500 0.500 0.500 5.00 0.500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 2.50 0.0100 0.0100 0.500 0.500 5.00		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.250 0.500 0.0500 0.0500 0.0500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500 5.00 0.500	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane Chloroform Chloromethane cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane Dichlorodifluoromethane lodomethane (Methyl Iodide) Isopropylbenzene Methylene chloride Styrene	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390 NE 660 8.9 100	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		0.250 5.00 5.00 10.0 1.00 0.500	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroform Chloromethane cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane Dichlorodifluoromethane lodomethane (Methyl Iodide) Isopropylbenzene Methylene chloride Styrene trans-1,4-Dichloro-2-butene	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390 NE 660 8.9 100 7,100	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.250 0.500 0.0500 2.50 0.0100 0.0100 0.500 0.500 0.500 0.500		0.250 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroform Chloromethane Cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane Dichlorodifluoromethane Iodomethane Isopropylbenzene Methylene chloride Styrene Itrans-1,4-Dichloro-2-butene Trichlorofluoromethane	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390 NE 660 8.9 100 7,100 1,300	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00		5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00 0.500 0.250 0.500 2.50 0.0100 0.500 0.500 0.500 5.00 0.500 1.00		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.250 0.500 0.0500 0.0500 0.0500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		0.250 5.00 5.00 10.0 1.00 0.500 0.500 0.500 0.500 0.250 0.500 2.50 0.500 2.50 0.500 0.500 0.500 0.500 0.500 0.500 1.00	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane Chloroethane Chloromethane Cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane Dichlorodifluoromethane lodomethane (Methyl lodide) Isopropylbenzene Methylene chloride Styrene trans-1,4-Dichloro-2-butene Trichlorofluoromethane Vinyl Acetate	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390 NE 660 8.9 100 7,100 1,300 16	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 5.00 0.0100 0.500 0.500 0.500 0.500 1.00 1.00 1.00 1.00		5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00		5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00 0.500 0.250 0.500 2.50 0.0100 0.500 0.500 0.500 5.00 0.500 1.00		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.250 0.500 0.0500 2.50 0.0100 0.500 0.500 0.500 5.00 0.500 1.00		0.250 5.00 5.00 10.0 1.00 0.500 0.500 0.500 0.500 0.250 0.500 2.50 0.500 2.50 0.500 0.500 0.500 0.500 0.500 1.00 1.00	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromomethane Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane Chloroethane Chloromethane Cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane Dichlorodifluoromethane lodomethane (Methyl lodide) Isopropylbenzene Methylene chloride Styrene trans-1,4-Dichloro-2-butene Trichlorofluoromethane Vinyl Acetate Benzene	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390 NE 660 8.9 100 7,100 1,300 16 1.2	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.500 0.500 1.00 0.500		5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.0500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.0500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.250 0.500 0.0500 0.0500 0.500 0.500 0.500 0.500 0.500 1.00 0.0500		0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroform Chloroethane Cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane Dichlorodifluoromethane lodomethane (Methyl lodide) Isopropylbenzene Methylene chloride Styrene trans-1,4-Dichloro-2-butene Trichlorofluoromethane Vinyl Acetate Benzene EthylBenzene	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390 NE 660 8.9 100 7,100 1,300 16 1.2 7.3	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.500 0.500 0.0500 0.0500 0.0500		5.00 5.00 5.00 20.0 1.00 0.500 1.00 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.0500 0.0500 0.0500 0.0500 0.0500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.500 1.00 0.0500 0.0500 0.0500		0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.100 0.250	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromoform Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroethane Chloroform Chloromethane cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane Dichlorodifluoromethane lodomethane (Methyl lodide) Isopropylbenzene Methylene chloride Styrene trans-1,4-Dichloro-2-butene Trichlorofluoromethane Vinyl Acetate Benzene EthylBenzene m,p-Xylene	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390 NE 660 8.9 100 7,100 1,300 16 1.2 7.3 1.8	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.500 0.500 0.500		5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500 0.0500		5.00 5.00 5.00 20.0 1.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.500 1.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.250 0.500 0.0500 0.0500 0.500 0.500 0.500 0.500 0.500 1.00 0.0500		0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.100 0.250 0.500	
2- Chloroethyl Vinyl Ether 2- Hexanone 4- Methyl-2-Pentanone (MIBK) Acetone Acrolein Acrylonitrile Bromochloromethane Bromodichloromethane Bromomethane Carbon Disulfide Carbon Tetrachloride Chlorobenzene Chlorodibromomethane Chloroform Chloroethane Cis-1,2-dichloroethylene cis-1,3-Dichloropropene Dibromomethane Dichlorodifluoromethane Iodomethane (Methyl Iodide) Isopropylbenzene Methylene chloride Styrene trans-1,4-Dichloro-2-butene Trichlorofluoromethane Vinyl Acetate Benzene EthylBenzene	NE	NE 99 170 1,500 0.042 0.12 NE 1.1 8.5 8.7 0.92 0.51 50 0.79 23 0.17 2.1 590 0.055 61 390 NE 660 8.9 100 7,100 1,300 16 1.2 7.3	5.00 5.00 5.00 20.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500		5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.500 0.500 0.0500 0.0500 0.0500		5.00 5.00 5.00 20.0 1.00 0.500 1.00 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.0500 0.0500 0.0500 0.0500 0.0500		5.00 10.0 5.00 10.0 1.00 0.500 0.500 1.00 5.00 0.500 0.500 0.500 0.250 0.0500 0.500 0.500 0.500 0.500 1.00 0.500 0.500 0.500 1.00 0.0500 0.0500 0.0500 0.0500 0.0500		0.250 5.00 5.00 5.00 10.0 1.00 0.500 0.500 5.00 5.00 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 0.500 1.00 0.100 0.250	



Analyte	Portland Harbor CULs ¹	JSCS SLVs ² (µg/L)	SW-2(03 (μg/		SW-2(0328 (μg/L)	321)	SW-2(0424 (μg/L)	!21)	SW-2(0524 (µg/L)	121)	SW-2(0528 (μg/L)	,
T	(µg/L)		00:55		00:5-		00:5-		00:5:		0.015	
Tetrachloroethene (PCE)	NE NE	9.8	0.0100 0.0500	U	0.0100 0.0500	U	0.0100 0.0500	U	0.0100 0.0500	U	0.0100 0.500	U
Toluene trans-1,2-Dichloroethene	NE NE	9.8	0.0500	U	0.0500	U	0.0500	U	0.0500	U	0.500	U
trans-1,3-Dichloropropene	NE NE	0.055	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.200	U
Trichloroethene (TCE)	NE	0.17	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U
Vinyl Chloride	NE NE	0.015	0.0100	U	0.0100	U	0.0100	U	0.0100	U	0.0100	U
	1112	0.010	0.0200		0.0200		0.0100		0.0200		0.0100	
SVOCs - Halogenated Compounds												
1,2-Dichlorobenzene	NE	49	0.250	U	0.250	U	0.250	U	0.250	U	0.250	U
1,3-Dichlorobenzene	NE	14	0.250	U	0.250	U	0.250	U	0.25	U	0.250	U
1,4-Dichlorobenzene	NE	2.8	0.250	U	0.250	U	0.250	U	0.250	U	0.250	U
1,2,4-Trichlorobenzene	NE	8.2	1.00	U	1.00	U	1.00	U	1.00	U	1.00	U
Hexachlorobenzene	0.000029	0.00029			-						0.0374	U
2-Chloronaphthalene	NE	490									0.0374	U
Hexachloroethane	NE	3.3	-		-						0.0935	U
Hexachlorobutadiene	NE	0.86	2.50	U	2.50	U	2.50	U	2.50	U	0.0935	U
Hexachlorocyclopentadiene	NE	5.2									0.187	U
2,2'-oxybis(1-chloropropane)	NE	0.95	-		-		-				0.0935	U
Bis-(2-chloroethoxy) methane	NE	NE	-		-		-				0.0935	U
Bis-(2-chloroethyl) ether	NE	0.06	-		-						0.0935	U
4-Chlorophenyl-phenyl ether	NE	0.06	-								0.0935	U
4-bromophenyl-phenyl ether	NE	NE 0.028	-								0.0935	U
3,3'-Dichlorobenzidine	NE NE	0.028			-		-				1.87	U
4-Chloroaniline	NE	150					-				0.0935	U
Oxygen-Containing Compounds												
Renzoic Acid	NE	42	1		1					-	4.67	U
Benzoic Acid Benzyl Alcohol	NE NE	8.6									0.374	U
Dibenzofuran	NE NE	3.7	0.0374	U	0.0374	U	0.197	U	0.189	U	0.374	U
Isophorone	NE NE	71	0.0374	U	0.0374	U	0.197	U	0.109	J	0.0374	U
зорногоне	INL	, +									0.0333	
Phthalate Esters												
Dimethylphthalate	NE	3	0.748	U	0.0748	U	3.88	U	3.77	U	0.748	U
Diethylphthalate	NE NE	3	0.748	U	0.0748	U	3.88	U	3.77	U	0.748	U
Di-n-butylphthalate	NE NE	3	0.748	U	0.0748	U	3.88	U	3.77	U	0.748	U
Butylbenzylphthalate	NE	3	0.748	U	0.0748	U	3.88	U	3.77	U	0.748	U
Di-n-octylphthalate	NE	3	0.748	U	0.0748	U	3.88	U	3.77	U	0.748	U
bis(2-Ethylhexyl)phthalate	NE	2.2	0.748	U	0.0748	U	3.88	U	3.77	U	0.748	U
PAHs												
FAIIS			_									
Naphthalene	12	0.2	0.0748	U	0.0748	U	0.194	U	0.377	U	0.0748	U
2-Methylnaphthalene	NE	0.2	0.0748	U	0.0748	U	0.388	U	0.377	U	0.0748	U
Acenaphthylene	NE	0.2	0.0374	U	0.0374	U	0.194	U	0.189	U	0.0374	U
Acenaphthene	NE	0.2	0.0374	U	0.0374	U	0.194	U	0.189	U	0.0374	U
Fluorene	NE	0.2	0.0374	U	0.0374	U	0.194	U	0.189	U	0.0374	U
Phenanthrene	NE	0.2	0.0374	U	0.0374	U	0.194	U	0.189	U	0.0889	
Anthracene	NE	0.2	0.0374	U	0.0374	U	0.194	U	0.189	U	0.0374	U
Fluoranthene	NE	0.2	0.0374	U	0.0374	U	0.194	U	0.189	U	0.238	
Pyrene	NE	0.2	0.0374	U	0.0374	U	0.194	U	0.189	U	0.200	
Benzo(a)anthracene	0.0012	0.018	0.0374	U	0.0374	U	0.194	U	0.189	U	0.0691	J
Chrysene	0.0013	0.018	0.0374	U	0.0374	U	0.194	U	0.189	U	0.151	
Benzo(k)fluoranthene	0.0012 0.0013	0.018	0.0561 0.0561	U U	0.0561 0.0561	U	0.291 0.291	U	0.283 0.283	U	0.187 0.0733	J
Benzo(k)fluoranthene	0.0013	0.018	0.0561	U	0.0561	U	0.291	U	0.283	U	0.0733	J
Benzo(a)pyrene	0.00012	0.018	0.0374	U	0.0374	U	0.291	U	0.283	U	0.146	
Indeno(1,2,3-cd)pyrene Dibenz(a,h)anthracene	0.0012	0.018	0.0374	U	0.0374	U	0.194	U	0.189	U	0.0374	U
Benzo(g,h,i)perylene	0.00012 NE	0.018	0.0374	U	0.0374	U	0.194	U	0.189	U	0.0374	
cPAHs	0.00012	NE	0.104	U	0.104	U	0.194	U	0.189	U	0.114	
Total PAHs	2.00012		U.1U7		J. 107		1 0.0 10		1 0.020	3	V-1-1-1	
0			0.000	U	0.000	U	0.000	U	0.000	U	1.18	
1/2DL	NE NE	NE	0.383	U	0.383	U	1.89	U	1.94	U	1.26	
DL	-	·=	0.767	U	0.767	U	3.78	U	3.87	U	1.72	
	1			<u> </u>			· · · ·			-		
Chlorinated Dioxins and Furans												
2,3,7,8,-TCDD (Toxicity Equivalence	- 4- 4-	F 4F 00	0.007.00		7.055.00		0.555.00		4.40= 0=		4.505.65	
Quotient)	5.1E-10	5.1E-09	3.60E-06		7.65E-06		8.55E-06		1.18E-05		4.58E-06	
2,3,7,8,-TCDD	NE	5.1E-09	9.61E-07	U	2.09E-06	U	1.90E-06	U	2.21E-06	U	1.38E-06	U
2,3,7,8,-TCDF	NE	NE	1.07E-07	U	2.51E-06	U	2.13E-06	U	2.98E-06	U	1.58E-06	U
1,2,3,7,8,-PeCDD	NE	NE	1.08E-06	U	2.68E-06	U	2.07E-06	U	2.70E-06	U	1.40E-06	U
1,2,3,7,8,-PeCDF	NE	NE	7.29E-07	U	1.70E-06	U	1.55E-06	U	1.81E-06	U	1.22E-06	U
2,3,4,7,8,-PeCDF	NE	NE	6.48E-07	U	1.57E-06	U	1.52E-06	U	1.70E-06	U	1.22E-06	U
1,2,3,6,7,8,-HxCDD	NE	NE	1.71E-06	U	3.37E-06	U	3.79E-06	U	3.70E-06	U	1.47E-06	U
1,2,3,7,8,9,-HxCDD	NE	NE	2.04E-06	J, K	3.47E-06	U	3.94E-06	U	3.83E-06	U	1.60E-06	U
1,2,3,4,7,8,-HxCDF	NE	NE	5.48E-07	U	1.40E-06	U	1.96E-06	U	1.76E-06	U	1.14E-06	U
1,2,3,6,7,8,-HxCDF	NE	NE	5.25E-07	U	1.41E-06	U	1.88E-06	U	1.73E-06	U	1.06E-06	U
1,2,3,7,8,9,-HxCDF	NE	NE	7.99E-07	U	2.28E-06	U	2.82E-06	U	2.82E-06	U	1.65E-06	U
2,3,4,6,7,8,-HxCDF	NE	NE	5.38E-07	U	1.40E-06	U	1.92E-06	U	1.79E-06	U	1.09E-06	U
1,2,3,4,6,7,8,-HpCDD	NE	NE	4.45E-05	J	5.46E-05		1.32E-04		2.47E-04		3.61E-05	J, K
1,2,3,4,6,7,8,-HpCDF	NE	NE	1.20E-06	B, J, K	2.45E-06	J	3.79E-06	U	7.71E-06	J, K	6.08E-06	J
1,2,3,4,7,8,9,-HpCDF	NE	NE	1.22E-06	U	3.01E-06	U	4.79E-06	J	4.03E-06	U	1.49E-06	U
OCDD	NE	NE	8.07E-04		5.62E-04		2.76E-03		6.27E-03		4.45E-04	



Analyte	Portland Harbor CULs ¹ (µg/L)	JSCS SLVs ² (µg/L)	SW-2(03 (µg/	,	SW-2(0328 (µg/L)	,	SW-2(042- (μg/L)	,	SW-2(052- (μg/L)	,	SW-2(0528 (µg/L)	,
OCDF	NE	NE	4.11E-06	B, J, K	5.56E-06	U	7.08E-06	J	4.28E-06	U	1.03E-05	J, K
Total tetrachlorinated dioxins	NE	NE	9.61E-07	U	2.09E-06	U	1.90E-06	U	2.21E-06	U	1.38E-06	U
Total pentachlorinated dioxins	NE	NE	1.83E-06	B, J, K	2.68E-06	U	2.07E-06	U	1.50E-06	U	1.40E-06	U
Total hexachlorinated dioxins	NE	NE	1.95E-05	B, J, K	1.85E-05	J, K	1.69E-05	J, K	1.99E-05	J, K	8.32E-06	J, K
Total heptachlorinated dioxins	NE	NE	1.08E-04	U	1.19E-04		3.19E-04		5.68E-04		7.59E-05	J, K
Total tetrachlorinated furans	NE	NE	1.07E-06	U	2.51E-06	U	2.13E-06	U	2.98E-06	U	1.58E-06	U
Total pentachlorinated furans	NE	NE	7.72E-07	B, J	1.57E-06	U	2.07E-06	J, K	2.36E-06	J, K	6.37E-06	J, K
Total hexachlorinated furans	NE	NE	1.89E-06	B, J, K	1.40E-06	U	5.76E-06	U	1.11E-05	J	5.91E-06	J
Total heptachlorinated furans	NE	NE	4.86E-06	B, J, K	6.44E-06	J, K	1.62E-05	U	3.13E-05	J, K	1.39E-05	J

Notes:

- 1. Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020
- 2. Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005
- B: The target analyte was detected in the associated blank.
- F-11: The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
- F-15: Results for diesel are estimated ted due to overlap from the reported oil result.
- F-16: Results for oil are estimated due to overlap from the reported diesel result.
- J: Value is estimated.
- K: Estimated maximum possible concentration.
- NE: not established
- U: Not detected. Reporting or detection limit shown.
- Bolding indicates analyte detection.
- Shading indicates analyte detection at a concentration greater than regulatory screening level.
- Italics indicate the laboratory detection limit is greater than the screening level.
- --: not analyzed



BCSAmerica-1-02:090122

APPENDIX A

TABLE A-1

Summary of Soil Sample Chemical Analytical Results Petroleum Hydrocarbons Former Automatic Vending Company 5001 North Lagoon Avenue Portland, Oregon

Boring/Sample I.D.	Sample Depth (feet BGS)	Fill or Native	Sample Date		drocarbon Identificat Method NWTPH-HCII (mg/kg)		Gasoline-Range Hydrocarbons Method NWTPH-Gx	Method N	nge Hydrocarbons NWTPH-Dx (/kg)	Total Petroleum Hydrocarbons	TPH Method 418.1 (mg/kg)
	(leet bus)			Gasoline-Range	Diesel-Range	Oil-Range	(mg/kg)	Diesel-Range	Oil-Range	(mg/kg)	(IIIg/ kg)
					Confirmation S	Soil Samples - North	eastern USTs				
#1	14	Unknown	09/27/91	ND	ND	ND	_	_	_		-
#2	14	Unknown	09/27/91	ND	ND	ND	-		_		
#3	14	Unknown	09/27/91	ND	ND	ND	-	-	_		
#4	14	Unknown	09/27/91	ND	ND	ND	-	_	_		
#5	14	Unknown	09/27/91	ND	ND	ND	-	-	-		
#6	14	Unknown	09/27/91	ND	ND	ND	_	-	_		
#7	12	Unknown	09/27/91	ND	ND	ND	-	-	_		
#8	12	Unknown	09/27/91	ND	ND	ND	_		-		
					Confirmati	on Soil Samples - S	hop USTs				
1	8	Unknown	10/17/91	ND	ND	DET	-		_		970
2	8	Unknown	10/17/91	ND	ND	DET	_		_		1,200
3	7	Unknown	10/17/91	ND	ND	DET	_	_	_		2,300
4	8	Unknown	10/17/91	ND	ND	DET	_	_	_		990
1	6	Unknown	11/18/91	_	-	-	-	_	-		690
2	7	Unknown	11/18/91	_	_	-	-	_	_		590
3	9	Unknown	11/18/91	_	-	-	-	-	_		260
4	7	Unknown	11/18/91	_	_	-	-	_	_		190
5	7.5	Unknown	11/18/91	_	_	-	-	_	_		930
6	8	Unknown	11/18/91	-	-	-	-	-	-		390
7	8.5 - 9	Unknown	11/18/91	_	_	-	-	-	_		1,400
8	7.5	Unknown	11/18/91	-	-	-	-				220
9	7	Unknown	11/18/91		-	-	-				910
10	7.5	Unknown	11/18/91	_	_	_	-				1,600
11	6.5	Unknown	11/18/91	-	-	-	-				900
12	6.5-7	Unknown	11/18/91	_	_	-	-	-			210
						K&S Borings					
B-1 - #1	4	Native	01/09/19	ND	ND	ND	_	_	-	_	
B-2 - #2	4	Native	01/09/19	ND	ND	DET	-	25.0 U	402	427	
B-3 - #3*	7	Native	01/09/19				70.5	25,800	17,000	42,871	



TABLE A-1 Summary of Soil Sample Chemical Analytical Results Petroleum Hydrocarbons Former Automatic Vending Company 5001 North Lagoon Avenue Portland, Oregon

Boring/Sample I.D.	Sample Depth	Fill or Native	Sample Date	1	Irocarbon Identificat Method NWTPH-HCII (mg/kg)		Gasoline-Range Hydrocarbons Method NWTPH-Gx	Method I	ange Hydrocarbons NWTPH-Dx g/kg)	Total Petroleum Hydrocarbons	TPH Method 418.1
	(feet BGS)			Gasoline-Range	Diesel-Range	Oil-Range	(mg/kg)	Diesel-Range	Oil-Range	(mg/kg)	(mg/kg)
B-4 - #4	8	Native	01/09/19				_	25.0 U	610	635	
B-3 - #5*	9	Native	01/09/19				-	357 U	10,200	10,557	
				Con	firmation Soil Samp	les - Hydraulic Hois	t Remedial Excavation				
C1	12	Native	03/08/19	_	_		_	25.0 U	1,450	1,475	
C2	12	Native	03/08/19	_	_	_	_	25.0 U	1,060	1,085	
C3	9	Native	03/08/19	-	_	-	-	948 U	3,600	4,548	
C4	9	Native	03/08/19	-	-	_	-	25.0 U	50.0 U	75.0	
C5	9	Native	03/08/19	_	_	_	_	25.0 U	60.7	85.7	
C6	9	Native	03/08/19	-	_	-	_	25.0 U	50.0 U	75.0	
C7	10	Native	03/08/19	-	_	-	_	276	326	602	
C8	14	Native	03/08/19	_	_	_	_	25.0 U	718	743	
					G	GeoDesign Borings					
DP-1	11-12.5	Native	07/18/19		-		3.04 l	11.1 U	22.2 U	36.3	
DP-2	11-12.5	Native	07/18/19	_	_	_	3.10 l	9.64 U	19.3 U	32.0	
DP-2	21-22.5	Native	07/18/19	_	_	_	2.89 l	9.81 U	261	274	
DP-2	25-26.5	Native	07/18/19	-	_	_		11.6 U	23.3 U	34.9	
DP-3	10-11.5	Native	07/18/19	_	_	_	2.83 l	9.77 U	19.5 U	32.1	
DP-4	11.5-13	Native	07/19/19	-	_	_	2.87 l	9.90 U	19.8 U	32.6	
DP-5	10-11.5	Native	07/19/19	_	_	_	3.12 l	10.6 U	21.3 U	35.0	
DP-6	12-13.5	Native	07/19/19	_	_	_	2.76 l	9.72 U	19.4 U	31.9	
DP-7	11.5-13	Native	07/19/19	_	_	_	2.59 l	10.4 U	20.7 U	33.7	
DP-8	11.5-13	Native	07/19/19	_	_	_	3.01 l	J 10.1 U	20.1 U	33.2	
DP-9	11-12.5	Native	07/19/19	_	_	_	3.18 l	J 10.6 U	21.3 U	35.1	
DP-10	6-7.5	Native	07/19/19	_	_	_	3.24 l	10.3 U	20.5 U	34.0	
DP-11	6-7.5	Fill	07/19/19	_	_	_	15.0	218 U	972	1,205	
DP-11	10-11.5	Native	07/19/19	_	_	_	4.42	10.6 U	21.2 U	36.2	
DP-12	5-6.5	Fill	07/19/19	_	_	_	14.5	213 U	1,360	1,588	
DP-12	10-11.5	Native	07/19/19	_	_	_	2.99 l	J 10.0 U	20.1 U	33.1	
DP-13	5-6.5	Fill	07/19/19	_	_	_	22.0	315 U	1,680	2,017	
DP-13	10-11.5	Native	07/19/19	-	_	_	3.38 l	10.3 U	20.5 U	34.2	
DP-14	0.5-1.5	Fill	07/16/20	_	_	_	2.90 l	10.6 U	427	441	



TABLE A-1

Summary of Soil Sample Chemical Analytical Results Petroleum Hydrocarbons Former Automatic Vending Company 5001 North Lagoon Avenue Portland, Oregon

Boring/Sample I.D.	Sample Depth (feet BGS)	Fill or Native	Sample Date	<u> </u>	rocarbon Identificat /lethod NWTPH-HCII (mg/kg)		Gasoline-Range Hydrocarbons Method NWTPH-Gx	Method N	nge Hydrocarbons IWTPH-Dx /kg)	Total Petroleum Hydrocarbons	TPH Method 418.1
	(leet bus)			Gasoline-Range	Diesel-Range	Oil-Range	(mg/kg)	Diesel-Range	Oil-Range	(mg/kg)	(mg/kg)
DP-14	1.5-2.5	Native	07/16/20	_	-	_	2.93 U	10.8 U	43.0 U	56.7	
DP-15	1-2	Fill	07/16/20	_	-	-	8.48	225 U	1,940	2,173	-
DP-15	2.5-3.5	Native	07/16/20	-	-	-	2.50 U	10.1 U	40.5 U	53.1	
DP-16	6-7	Native	07/16/20	-	-	-	2.96 U	10.2 U	40.7 U	53.9	
DP-17	0.5-1.5	Fill	07/16/20	_	-	-	3.20 U	11.8 U	47.1	62.1	-
DP-17	2-3	Native	07/16/20	-	-	-	3.13 U	12.1 U	30.1	45.3	
DP-18	2-3	Fill	07/16/20	-	-	_	3.25 U	12.2 U	29.0	44.5	
DP-19	0.5-1.5	Fill	07/16/20	-	-	-	3.18 U	11.5 U	23.0 U	37.7	
						Off-Site Borings					
#1 B-1	5-6.5	Fill	05/05/92	-	-	-	-	-	-		1,100
#2 B-1	7.5-8	Fill	05/05/92	-	-	-	_	_	-		1,400
#3 B-2	4-5.5	Fill	05/05/92	-	-	-	-	_	-		1,800
#4 B-2C	7-8.5	Fill	05/05/92	_	-	-	-	_	-		ND
#5 B-3	4-5.5	Fill	05/05/92	-	-	-	_	_	-		66
#6 B-3	7-8.5	Fill	05/05/92		-	-	-	-	-		2,000
EPA Portland Harbor CU	Ls ¹			NE	NE	NE	NE	91	NE	NE	NE
DEQ JSCS SLVs ²				NE	NE	NE	NE	NE	NE	NE	NE

Notes

1. Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020

2. Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005

DET: detected

ND: not detected at concentrations greater than the reporting or detection limit shown

NE: not established

U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than regulatory screening level.

Italics indicate detection limit is greater than EPA Portland Harbor CULs and/or DEQ JSCS SLVs.

--: not analyzed

* Soil represented by this samples was subsequently removed.



Boring/ Sample I.D.	Sample Depth	Fill or Native	Sample Date					Metho	EPH d NWEPH g/kg)								VPH Method NWVF (mg/kg)	PH		
Sample 1.D.	(feet BGS)	Native	Date	C8-C10 Aliphatic	C10-C12 Aliphatic	C12-C16 Aliphatic	C16-C21 Aliphatic	C21-C34 Aliphatic	C8-C10 Aromatic	C10-C12 Aromatic	C12-C16 Aromatic	C16-C21 Aromatic	C21-C34 Aromatic	C5-C6 Aliphatic	C6-C8 Aliphatic	C8-C10 Aliphatic	C10-C12 Aliphatic	C8-C10 Aromatic	C10-C12 Aromatic	C12-C13 Aromatic
DP-1	11-12.5	Native	07/18/19	25.9 U, C	13.0 U	13.0 U	13.0 U	13.0 U	13.0 U, C	13.0 U, C	13.0 U	13.0 U	13.0 U	3.69 U	5.28 U	2.96 U	3.17 U	6.33 U	1.27 U	14.8 U
DP-2	11-12.5	Native	07/18/19	18.8 U, C	9.42 U	9.42 U	9.42 U	9.42 U	9.42 U, C	9.42 U, C	9.42 U	9.42 U	9.42 U	2.04 U	2.91 U	1.63 U	1.74 U	3.49 U	0.698 U	8.14 U
DP-2	21-22.5	Native	07/18/19	20.4 U, C	10.2 U	10.2 U	10.2 U	10.2 U	10.2 U, C	10.2 U, C	10.2 U	10.2 U	10.2 U	1.96 U	2.81 U	1.57 U,Q	1.68 U	3.37 U	0.880 Q	7.85 U, Q
DP-3	10-11.5	Native	07/18/19	24.4 U, C	12.2 U	12.2 U	12.2 U	12.2 U	12.2 U, C	12.2 U, C	12.2 U	12.2 U	12.2 U	2.30 U	3.29 U	1.84 U	1.97 U	3.95 U	0.790 U	9.21 U
DP-5	10-11.5	Native	07/19/19	20.5 U, C	10.2 U	10.2 U	10.2 U	10.2 U	10.2 U, C	10.2 U, C	10.2 U	10.2 U	10.2 U	2.01 U	2.87 U	1.61 U	1.72 U	3.44 U	0.688 U	8.03 U
DP-10	6-7.5	Native	07/19/19	20.9 U, C	10.4 U	10.4 U	10.4 U	10.4 U	10.4 U, C	10.4 U, C	10.4 U	10.4 U	10.4 U	2.07 U	2.95 U	1.65 U	1.77 U	3.54 U	0.709 U	8.27 U
DP-11	6-7.5	Fill	07/19/19	23.8 U, C	11.9 U	11.9 U	11.9 U	17.1	11.9 U, C	11.9 U, C	11.9 U	17.8	62.4	2.90 U	4.14 U	2.32 U	2.49 U	4.97 U	1.25	11.6 U
DP-11	10-11.5	Native	07/19/19	18.9 U, C	9.46 U	9.46 U	9.46 U	9.46 U	9.46 U, C	9.46 U, C	9.46 U	9.46 U	9.46 U	2.89 U	4.14 U	2.32 U,Q	2.48 U	4.96 U	0.992 U, Q	11.6 U, Q
DP-12	5-6.5	Fill	07/19/19	21.8 U, C	10.9 U	62.9	78.8	26.9	10.9 U, C	10.9 U, C	10.9 U	16.1	54.0	2.28 U	3.26 U	1.83 U	2.12	3.91 U	6.63	9.13 U
DP-12	10-11.5	Native	07/19/19	21.4 U, C	10.7 U	10.7 U	10.7 U	10.7 U	10.7 U, C	10.7 U, C	10.7 U	10.7 U	10.7 U	1.86 U	2.66 U	1.49 U,Q	1.60 U	3.20 U	0.639 U, Q	7.46 U, Q
DP-13	5-6.5	Fill	07/19/19	19.8 U, C	9.88 U	11.4	58.3	158	9.88 U, C	9.88 U, C	9.88 U	25.4	128	1.93 U	2.76 U	1.83	9.89	3.32 U	10.4	11.8
DP-13	10-11.5	Native	07/19/19	22.4 U, C	11.2 U	11.2 U	11.2 U	11.2 U	11.2 U, C	11.2 U, C	11.2 U	11.2 U	11.2 U	2.58 U	3.68 U	2.06 U,Q	2.21 U	4.42 U	0.884 U, Q	10.3 U, Q
DP-14	0.5-1.5	Fill	07/16/20	22.7 U	11.4 U	11.4 U	11.4 U	11.4 U	11.4 U	11.4 U	11.4 U	11.4 U	11.4 U	2.20 U	3.15 U	1.76 U	1.89 U	3.78 U	6.44	8.81 U
DP-15	1-2	Fill	07/16/20	19.9 U	9.97 U	9.97 U	11.6	172	9.97 U	9.97 U	9.97 U	46.2	205	1.65 U	2.35 U	1.32 U	3.46	2.82 U	46.6	10.5
EPA Portland Har	rbor CULs ¹	•		NE	2.6	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE
DEQ JSCS SLVs ²		•		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE

Notes:

- 1. Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020
- 2. Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005
- C: Value is not within control limits.
- NE: not established
- Q: analyte with an initial or continuing calibration that does not meet established acceptance criteria
- U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Italics indicate detection limit is greater than EPA Portland Harbor CULs and/or DEQ JSCS SLVs.

Boring/Sample I.D.	Sample Depth	Fill or Native	Sample Date									E	EPA Met	VOCs ¹ thods 5035A an (mg/kg)	nd 82	260C						<u>.</u>	
	(feet BGS)			n-Butylben	nzene	Ethylbenze	ene	4-Methyl-2-Pentar (MiBK)	none	Isoproplybenze	ene	n-propylber	zene	Naphthalene	;	PCE	Toluene		1,2,4-TME	1,3,5-TMB	m,p-Xylen	es	o-Xylenes
											Borings												
B-3 - #3*	7	Native	01/09/19	0.133	M-02	0.0338		0.626	U	0.103		0.239		1.18		10.3	0.115		0.987	0.577	0.162		0.135
0.1	4.0		00/00/40	0.0540		0.0050				Soil Samples - Hyd	Iraulic					1.00	0.0540		0.0540		0.0540		0.0050
C1	12	Unknown	03/08/19	0.0516	U	0.0258	U	0.0516	U	0.0516	U	0.0258	U	0.103 L	_	1.66	0.0516	U	0.0516	U 0.0516 U	0.0516	U	0.0258 U
C2 C3	12 9	Unknown Unknown	03/08/19 03/08/19	0.0501 0.0588	U	0.0251 0.0294	U	0.0501 0.588	U	0.0501 0.0588	U	0.0251 0.0294	U	0.100 L 0.118 L	_	0.845 3.42	0.0501 0.0588	U	0.0501 0.0588	U 0.0501 U U 0.0588 U	0.0501 0.0588	U	0.0251 U 0.0294 U
C3	9	Unknown	03/08/19	0.0566	U II	0.0294	U	0.542	U	0.0542	IJ	0.0294	U	0.118 U	_	0.0339	0.0542	11	0.0568	U 0.0271 U	0.0542	U II	0.0294 U
C5	9	Unknown	03/08/19	0.0342	II	0.0271	U	0.495	U	0.0342	II	0.0271	U	0.108 C	1	0.0339 0.0248 U	0.0342	U II	0.0342	U 0.0495 U	0.0342	II	0.0271 U
C6	9	Unknown	03/08/19	0.0512	II	0.0256	U	0.512	U	0.0512		0.0256		0.102 L	1	0.0256 U	0.0512	II	0.0512	U 0.0512 U	0.0512	II	0.0256 U
C7	10	Unknown	03/08/19	0.0618	U	0.0309	U	0.618	U	0.0618	U	0.0309	U	0.124 L	1	0.175	0.0618	U	0.0618	U 0.0618 U	0.0618	IJ	0.0309 U
C8	14	Unknown	03/08/19	0.0634	U	0.0317	U	0.634	U	0.0634	U	0.0317	U	0.127 L	J	0.0563	0.0634		0.0634	U 0.0634 U	0.0634	U	0.0317 U
	•		,,		-					GeoDesi	gn Bori		-									-	
DP-1	11-12.5	Native	07/18/19	0.0304	U	0.0304	U	0.304	U	0.0152	U	0.0152	U	0.0608 L	J	0.0152 U	0.0304	U	0.0304	U 0.0304 U	0.0304	U	0.0304 U
DP-2	11-12.5	Native	07/18/19	0.0310	U	0.0155	U	0.310	U	0.0310	U	0.0155	U	0.0620 L	J	0.0155 U	0.0310	U	0.0310	U 0.0310 U	0.0310	U	0.0310 U
DP-2	21-22.5	Native	07/18/19	0.0289	U	0.0144	U	0.289	U	0.0289	U	0.0144	U	0.0578 L	J	0.0150 J	0.0289	U	0.0289	U 0.0289 U	0.0289	U	0.0289 U
DP-2	25-26.5	Native	07/18/19	0.0374	U	0.0187	U	0.374	U	0.0374	U	0.0187	U	0.0749 L	J	0.0187 U	0.0374	U	0.0374	U 0.0374 U	0.0374	U	0.0187 U
DP-3	10-11.5	Native	07/18/19	0.0283	U	0.0141	U	0.283	U	0.0283	U	0.0141	U	0.0565 L	J	0.0141 U	0.0283	U	0.0283	U 0.0283 U	0.0283	U	0.0283 U
DP-4	11.5-13	Native	07/19/19	0.0287	U	0.0144	U	0.287	U	0.0287	U	0.0144	U	0.0575 L	J	0.0144 U	0.0287	U	0.0287	U 0.0287 U	0.0287	U	0.0287 U
DP-5	10-11.5	Native	07/19/19	0.0312	U	0.0156	U	0.312	U	0.0312	U	0.0156	U	0.0623 L	J	0.0156 U	0.0312	U	0.0312	U 0.0312 U	0.0312	U	0.0312 U
DP-5	15-16.5	Native	07/19/19	0.0329	U	0.0164	U	0.329	U	0.0329	U	0.0164	U	0.0657 L	J	0.0164 U	0.0329	U	0.0329	U 0.0329 U	0.0329	U	0.0329 U
DP-6	12-13.5	Native	07/19/19	0.0276	U	0.0138	U	0.276	U	0.0276	U	0.0138	U	0.0553 L	J	0.0138 U	0.0276	U	0.0276	U 0.0276 U	0.0276		0.0276 U
DP-7	11.5-13	Native	07/19/19	0.0259	U	0.0129	U	0.259	U	0.0259	U	0.0129	U	0.0518 L	J	0.0129 U	0.0259	U	0.0259	U 0.0259 U	0.0259	U	0.0259 U
DP-8	11.5-13	Native	07/19/19	0.0301	U	0.0301	U	0.301	U	0.0301	U	0.0301	U	0.0602 L	J	0.0151 U	0.0301		0.0301	U 0.0301 U	0.0301	U	0.0301 U
DP-9	11-12.5	Native	07/19/19	0.0318	U	0.0318	U	0.318	U	0.0318	U	0.0318	U	0.0635 L	J	0.0159 U	0.0318		0.0318	U 0.0318 U	0.0318	U	0.0318 U
DP-10	6-7.5	Native	07/19/19	0.0324	U	0.0324	U	0.324	U	0.0324	U	0.0324	U	0.0648 L	J	0.0162 U	0.0324	U	0.0324	U 0.0324 U	0.0324	U	0.0324 U
DP-11	6-7.5	Fill	07/19/19	0.0326	U	0.0326	U	0.831		0.0326	U	0.0326	U	0.0652 L	J	0.0978	0.0326	U	0.0326	U 0.0326 U	0.0652	U	0.0482
DP-11	10-11.5	Native	07/19/19	0.0262	U	0.0131	U	0.262	U	0.0262	U	0.0131	U	0.105 L	_	0.0131 U	0.0262		0.0262	U 0.0262 U	0.0262	U	0.0131 U
DP-12	5-6.5	Fill	07/19/19	0.0283	U	0.0153	J	0.351	J	0.0283	U	0.0141	U	0.0565 L	_	0.105	0.0283		0.0401	J 0.0571	0.0492	J	0.0922
DP-12 DP-13	10-11.5 5-6.5	Native Fill	07/19/19 07/19/19	0.0299	U	0.0149 0.0195	U	0.299	U	0.0299	U	0.0149	U	0.119 L 0.0780 L	,	0.0149 U 0.141	0.0299 0.0390		0.0299 0.0585	U 0.0299 U J 0.0405 J	0.0299 0.0468		0.0149 U 0.0678
DP-13	10-11.5	Native	07/19/19	0.0390	U	0.0195	U	0.338	U	0.0338	U	0.0390	IJ	0.135 L	,	0.141 0.0169 U	0.0390		0.0338	U 0.0338 U	0.0468	J	0.0169 U
DP-13 DP-14	0.5-1.5	Fill	07/19/19	0.0338	J	0.0169	U	0.338	U	0.0338	IJ	0.0169	U	0.135 U	١	0.0169 U	0.0338	U II	0.0338	U 0.0290 U	0.0338	II	0.0169 U
DP-14	1.5-2.5	Native	07/16/20	0.0290	11	0.0145	U	0.290	U	0.0290	II	0.0145	11	0.0581 C	1	0.0145 U	0.0290	II	0.0290	U 0.0293 U	0.0290	II	0.0145 U
DP-15	1-2	Fill	07/16/20	0.0294	J	0.0147	IJ	0.294	U	0.0294	IJ	0.0147		0.0588 L	1	0.0147 U	0.0293	IJ	0.0294	U 0.0294 U	0.0294	U	0.0147 U
DP-15	2.5-3.5	Native	07/16/20	0.0250	U	0.0125	U	0.250	U	0.0250	U	0.0125	U	0.0500 L	- J	0.0125 U	0.0250	U	0.0250	U 0.0250 U	0.0250	U	0.0125 U
DP-16	6-7	Native	07/16/20	0.0296	U	0.0128	U	0.296	U	0.0296	U	0.0148	U	0.0591 L	- J	0.0123 U	0.0296		0.0296	U 0.0296 U	0.0296	U	0.0148 U
DP-17	0.5-1.5	Fill	07/16/20	0.0320	U	0.0140	U	0.320	U	0.0320	U	0.0140	U		, J	0.0140 U			0.0320	U 0.0320 U	0.0320	U	0.0140 U
DP-17	2-3	Native	07/16/20	0.0313	U	0.0157	U	0.313	U	0.0313	U	0.0157	U	0.0626 L	J	0.0157 U			0.0313	U 0.0313 U	0.0313	U	0.0157 U
DP-18	2-3	Fill	07/16/20	0.0325	U	0.0163	U	0.325	U	0.0325	U	0.0163	U	0.0651 L	J	0.0163 U			0.0325	U 0.0325 U	0.0325	U	0.0163 U
DP-19	0.5-1.5	Fill	07/16/20	0.0318	U	0.0159	U	0.318	U	0.0318	U	0.0159	U	0.0637 L	J	0.0159 U	0.0318		0.0318	U 0.0318 U	0.0318	U	0.0159 U
EPA Portland Harbor CULs	2			NE		NE		NE		NE		NE		NE		NE	NE		NE	NE	NE		NE
DEQ JSCS SLVs ³				NE		NE		NE		NE		NE		0.561		0.5	NE		9.2	NE	NE		NE



Notes

- 1. Only detected VOCs are listed.
- 2. Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020
- 3. Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005
- J: Estimated result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-02: Due to matrix interference, this analyte cannot be accurately quantified. The reported result is estimated.
- NE: not established
- U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than regualtory screening level.

* Soil represented by this samples was subsequently removed.



Page 2 of 2 BCSAmerica-1-02:090122

															EPA Met	SVOCs thod 8270D-SIM (mg/kg)														
Boring/ Sample I.D.	Sample Depth (feet BGS)	Fill or Native	Sample Date	Anthracene	Acenaphthene	Acenaphthylene	Benzo (a)anthracene	Вепzo(а)ругепе	Benzo(b)fluoranthene	Barrod d h linandana	Benzo(k)fluoranthene	Bis(2-ethylhexyl)phtalate	Benzyl Alcohol	ВЕНР	Carbzole	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	PCP	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Phenol	cPAHs (mg/kg)	Total PAHs (mg/kg)
							*						Confirmation So	il Samples - Hydra	ulic Hoist Ren	nedial Excavation														
C1	12	Unknown	03/08/19	0.0102 U	0.0102 U	0.0102 U	0.0102 U	0.0102	0.0102	U 0.0804	0.0102	J -	-	-	-	0.0102	U 0.0102 U	J	0.0102 U	0.0102 U	0.0102	U 0.0102	U	0.0102	U 0.0102	U -	-	-	0.0234	0.2334
C2	12	Unknown	03/08/19	0.0105 U	0.0105 U	0.0105 U	0.0105 U	0.0105	0.0105	U 0.0518	0.0105	J –	-	-	-	0.0105	U 0.0105 U	J -	0.0105 U	0.0105 U	0.0105	U 0.0105	U	0.0105	U 0.0105	U -	-	-	0.0239	0.2093
C3	9	Unknown	03/08/19	0.0519 U	0.0519 U	0.0519 U	0.0519 U	0.0519	0.0519	U 0.374	0.0519	J –	-	-	=	0.0519	U 0.0519 U	J	0.0519 U	0.0519 U	0.0519	U 0.0519	U	0.0519	U 0.0519	U -	-	-	0.119	1.1525
C7	10	Unknown	03/08/19	0.011	0.0107 U	0.0147	0.0368 M-05	0.0761	0.0912	M-05 0.0785	0.0252 M	-05	-	-		0.0476	0.0107 U	J	0.0569	0.0107 U	0.0716	0.0107	U -	0.0166	0.0893	-	-	-	0.104	0.6583
C8	14	Unknown	03/08/19	0.0510 U	0.0510 U	0.0510 U	0.0510 U	0.0510	0.0510	U 0.0781	0.0510	J -	-	-	-	0.0510	U 0.0510 U	J - U	0.0510 U	0.0510 U	0.0510	U 0.0510	U	0.0510	U 0.0586	-			0.1154	0.8507
														GeoDesign	Borings				,											
DP-1	11-12.5		07/18/19		0.00549 U		J 0.00549 U	0.00549	J 0.00549	U 0.00549		U	-	-	-	0.00549	U 0.00549 U	0.00549 U		J 0.00549 U	0.00549	U 0.00549	U	0.00549		U 0.00549		J	NC	NC
DP-2	11-12.5		07/18/19		0.00539 U		J 0.00539 U	0.00539	J 0.00539	U 0.00539		U -	-	-		0.00539	U 0.00539 U	0.00539 U		J 0.00539 U	0.00000	U 0.00539	U -	0.00539	0.00000	U 0.00539		J -	NC	NC
DP-2	21-22.5		07/18/19		0.0146 U	0.0146 L	J 0.0146 U	0.0220	0.0220	U 0.0146	U 0.0220	U 0.250	J 1.07 Q-4		0.0220 U	0.0140	U 0.0146 L	J 0.0146 U		0.0146 U	0.0146		U 0.146	U 0.0146	U 0.0169	J 0.0294		0.0302	0.041	0.346
DP-2	25-26.5	Native	. , ., .	0.00177 U	0.00177 U	0.00177 L	J 0.00177 U	0.00266	J 0.00266	U 0.00177		U 0.0266 L	J 0.00887 U	0.0266 U	0.00266 U	0.00177	U 0.00177 L		0.00177 U	J 0.00177 U	0.00177	U 0.00355	U 0.0177	U 0.00177	U 0.00177	U 0.00355	U 0.00355 U	J 0.00355 I	J NC	NC
DP-3	10-11.5		07/18/19		0.00538 U		J 0.00538 U	0.00538	0.00538	U 0.00538		J -	-	-		0.00000	U 0.00538 U	0.00538 U		J 0.00538 U		U 0.00538	U -	0.00538	U 0.00538	U 0.00538		J	NC	NC
DP-5	10-11.5	Native	, ,	0.00533 U	0.00533 U	0.00533 L	0.00841 J	0.00558	0.00583	J 0.00533		U -	-	-	-	0.00636	J 0.00533 L	0.00533 U	0.00890 J	0.00533 U	0.00533	U 0.00533	U -	0.00533	U 0.0104	J 0.00533	U 0.00533 U		0.0127	0.1148
DP-10	6-7.5	Native	, ,	0.00541	0.00145 U	0.00810	0.0366	0.0695		Q-42 0.0701	Q-42 0.0261 M		J 0.00727 U		0.00218 U	0.0576 Q	-42 0.00669	0.00145 U	0.117 Q-4	0.0000		Q-42 0.00291	U 0.0145	U 0.0471		Q-42 0.00291	U 0.00291 U	0.00291	0.094	0.755 25.8
DP-11	6-7.5	Fill	07/19/19	0.290	0.0578 U	0.244	1.65	2.87	4.26	2.32	1.35 M		J 0.290 U	0.868 U	0.0887 J		0.613	0.0578 U	2.86	0.0578 U	2.36	0.116	U 0.598	J 0.967	3.15	0.116	U 0.116 U	0.898	4.35	
DP-11	10-11.5 5-6.5	Native Fill		0.00141 U	0.00141 U 0.348 U	0.00141 L	0.00291	0.00284	0.00301	J 0.00355 6.99	0.00212	U 0.02120 U	J 0.00707 U J 1.74 U	0.0212 U 5.23 U	0.00212 U 0.523 U	0.00279	J 0.00141 U	0.00141 U 0.348 U	0.00611	0.00141 U 0.348 U	0.00287	0.00283	U 0.0141 U 3.48	U 0.00407	0.00766	0.00283		0.00283	0.00447 8.93	0.05488 49.4
DP-12 DP-12	10-11.5		07/19/19 07/19/19	0.366 J	0.00249	0.348 U	2.81 0.0155	5.59 0.0124	8.12 0.0130	M-05 0.00886	2.63 0.00477 M	5.23 t -05 0.0207 t	J 0.00689 U		0.00207	3.55 0.0167	0.00167	0.348 U	3.05 0.0274	0.00194 J	0.00859	0.698	U 0.0137	U 0.650	J 4.29 0.0375		U 0.698 U U 0.00276 U	0.698 U	0.0179	0.1885
DP-12 DP-13	5-6.5	Fill	07/19/19	0.00447 0.324	0.00249 0.173 U	0.00359	2.44	6.23	8.23	M-05 0.00886	2.70	2.61 U	J 0.869 U	2.61 U	0.00207 0.261 U	3.04	1.52	0.00137 U	2.49	0.00194 J	6.33	0.00276	U 2.01	J 0.695	4.02	0.00276	U 0.348 U	0.00276	9.55	46.7
DP-13 DP-13	10-11.5		07/19/19			0.00140 L	0.00362	0.00264	0.00275	J 0.00205		J 0.0210 U	J 0.00700 U		0.261 U	0.00345	0.00140 L		0.00467	0.173 U	0.00200		U 0.0140			0.00280		0.00280	0.00411	0.04902
DP-13	0.5-1.5	Fill	07/19/19	0.00140 0	0.00140 U	0.123	0.624	0.951	1.39	0.976	0.390 M			0.0210 0	0.00210 0	0.778	0.225	0.0280 U	0.673	0.0280 U	0.00200	0.0280	U =	0.172	0.815	0.0280	U 0.0280 U	0.00280	1.32	8.33
DP-14	1.5-2.5	Native	07/16/20			0.00557 L	J 0.00557 U	0.00557	J 0.00557	U 0.00557				_			U 0.00557 U		0.00557 U	J 0.00557 U	0.00557	U 0.00557	U -	0.00557	U 0.00557		U 0.00557 U	, <u>-</u>	NC	NC NC
DP-15	1-2	Fill	07/16/20	0.397	0.110 U	0.719	1.54	2.86	3.86	3.40	0.888 M		_	_	_	2.16	0.793	0.110 U	1.40	0.110 U	3.13	0.114	1 -	0.426	2.31	0.110	U 0.110 U		3.99	24.5
DP-15	2.5-3.5	Native	. , ., .	0.00499 U		0.00499 L	0.00789 J	0.00635	0.00628	J 0.00519		II		_	_	0.00617	J 0.00499 L	J 0.00499 U	0.00827 J	0.00499 U	0.00510	J 0.00499	U -	0.00499	U 0.0111	0.00499		J	0.0106	0.1112
DP-16	6-7	Native	07/16/20			0.00520 L	0.00520 U	0.00520	0.00520	U 0.00520		IJ	_	_	_	0.00520	U 0.00520 U	0.00520 U		0.00520 U	0.00520	U 0.00520	U -	0.00520	U 0.00520	U 0.00520		J	NC NC	NC
DP-17	0.5-1.5	Fill		0.00827 J	0.00597 U	0.00895	0.0212	0.0340	0.0432	0.0437	0.0163 M	-05	-		-	0.0339	0.00597 L	J 0.00597 U	0.0629	0.00597 U	0.0378	0.0318	-	0.0279	0.0805	0.00597	U 0.00665 J	-	0.0459	0.4869
DP-17	2-3	Native	07/16/20		0.00623 U	0.00623 L	0.00757 J	0.00623	0.00623	U 0.00623		U	-		_	0.00623	U 0.00623 L	J 0.00623 U	0.00777 J	0.00623 U	0.00623	U 0.00623	U	0.00624	J 0.00997	J 0.00623	U 0.00623 U	J	0.01114	0.12500
DP-18	2-3	Fill	07/16/20	0.00613 U	0.00613 U	0.00613 L	J 0.00613 U	0.00613	0.00613	U 0.00613		U	-	-	-	0.00613	U 0.00613 U	0.00613 U		0.00613 U	0.00613	U 0.00797	J	0.00613	U 0.00613	U 0.00613	U 0.00613 U	J	NC	NC
DP-19	0.5-1.5	Fill	07/16/20	0.00579 U	0.00579 U	0.00579 L	J 0.00579 U	0.00579	0.00579	U 0.00579	U 0.00579	U	-	-	-	0.00579	U 0.00579 U	0.00579 U	0.00579 U	J 0.00579 U	0.00579	U 0.00579	U -	0.00579	U 0.00579	U 0.00579	U 0.00579 U	J -	NC	NC
EPA Portland	Harbor CULs ¹			NE	NE	NE	NE	NE	NE	N	E NE	NE	NE	0.135	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	1.076	23
DEQ JSCS SLV	/s²			0.845	0.3	0.2	1.05	1.45	NE	0.	3 13	NE	NE	0.330	1.6	1.29	1.3	NE	2.23	0.536	0.1	0.561	0.250	1.17	1.52	NE	0.2	0.050	NE	NE

Notes:

1. Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020

2. Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005

3. Estimated results. Pesult detected below the lowest point of the calibration curve, but above the specified MDL.

M-D5: Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.

Nc. not calculated

NE: not established

Q-42: Matrix spike and/or duplicate analysis was performed on this sample. Percent recovery or RPD for this analyte is outside the laboratory control limits.

U. Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than regualtory screening level.

Italias indicate detection limit is greater than EPA Portland Harbor CULs and/or DEQ JSCS SLVs.

-: not analyzed

Boring/ Sample I.D.	Sample Depth (feet BGS)	Fill or Native	Sample Date								EPA Met	CBs hod 8082 g/kg)							Total PCBs (mg/kg)	
	(1001 200)			PCB 101	6	PCB 1221		PCB 1232	2	PCB 124		PCB 124	48	P	CB 1254	P	CB 1260	0	1/2 DL	DL
D 2 #2*	7	Matica	04 (00 (40	0.0003	U	0.0203		0.0203	- 11		Borings	0.0002		0.0002		0.400	ı	0.0	0.1699	0.2308
B-3 - #3*		Native	01/09/19	0.0203	U	0.0203	U		U	0.0203	U	0.0203	U	0.0203	U	0.109		0.0	0.1699	0.2308
24	4.0		00/00/40	0.0400		0.0400				Soil Samples - Hy				0.0400		0.0100			0.00005	0.0704
C1	12	Unknown	03/08/19	0.0103	U	0.0103	U	0.0103	U	0.0103	U	0.0103	U	0.0103	U	0.0103	U	0	0.03605	0.0721
C2	12	Unknown	03/08/19	0.0103	U	0.0103	U	0.0103	U	0.0103	U	0.0103	U	0.0103	U	0.0103	U		0.03605	0.0721
C3 C7	9	Unknown	03/08/19	0.0109	U U	0.0109 0.0107	U	0.0109 0.0107	U	0.0109 0.0107	U	0.0109 0.0107	U	0.0109 0.0501	U P-10	0.0339 0.0229	P-09 P-10	0.0339	0.0666	0.0993 0.1265
C8	14	Unknown Unknown	03/08/19 03/08/19	0.0107 0.0098	U	0.0107	U	0.0107	U	0.0107	U	0.0107	U	0.0501	P-10 P-10	0.0229	P-10	0.0730	0.0998	0.1265
Co	14	UNKNOWN	03/06/19	0.0096	U	0.0098	U	0.0098	U				U	0.0166	P-10	0.0098	U	0.0100	0.0460	0.0754
			T 0=110110						<u></u>		ign Boring					T			T 001001	
DP-1	11-12.5	Native	07/18/19	0.00541	U	0.00541	U	0.00541	U	0.00541	U	0.00541	U	0.00541	U	0.00541	U	0	0.01894	0.03787
DP-2	11-12.5	Native	07/18/19	0.00546	U	0.00546	U	0.00546	U	0.00546	U	0.00546	U	0.00546	U .	0.00546	U	0	0.01911	0.03822
DP-2	21-22.5	Native	07/18/19	0.00546	U	0.00546	U	0.00546	U	0.00546	U	0.00546	U	0.00942	J	0.00546	U	0.00942	0.02580	0.04218
DP-3	10-11.5	Native	07/18/19	0.00522	U	0.00522	U	0.00522	U	0.00522	U	0.00522	U	0.00522	U	0.00522	U	0	0.01827	0.03654
DP-4	11.5-13	Native	07/19/19	0.00544	U	0.00544 0.00523	U	0.00544	U	0.00544	U	0.00544	U	0.00544	U	0.00544 0.00523	U	0	0.01904	0.03808
DP-5	10-11.5	Native	07/19/19	0.00523	U		U	0.00523	U	0.00523	U	0.00523	U	0.00523	U		U	0	0.01831	0.03661
DP-6	12-13.5	Native	07/19/19	0.00535	U	0.00535	U	0.00535	U	0.00535	U	0.00535	U	0.00535	U	0.00535	U	0	0.01873	0.03745
DP-7	11.5-13	Native	07/19/19	0.00535 0.00524	U	0.00535	U	0.00535	U	0.00535	U	0.00535 0.00524	U	0.00535 0.00524	U U	0.00535 0.00524	U	0	0.01873	0.03745
DP-8 DP-9	11.5-13 11-12.5	Native	07/19/19 07/19/19	0.00524	U	0.00524 0.00537	U	0.00524 0.00537	U	0.00524 0.00537	U	0.00524	U U	0.00524	U	0.00524	U	0	0.01834 0.01880	0.03668 0.03759
DP-9 DP-10	6-7.5	Native Native	07/19/19	0.00537	U	0.00537	U	0.00537	U	0.00537	U	0.00537	U	0.00537	U	0.00537	U	0	0.01880	0.03759
DP-10 DP-11	6-7.5	Fill	07/19/19	0.00549	U	0.00567	U	0.0549	U	0.00567	P-10	0.00567	U	1.73	P-10	0.00567	P-10	2.48	2.59	2.70
DP-11 DP-11	10-11.5	Native	07/19/19	0.00204	U	0.00204	U	0.00204	U	0.00204	L-10	0.00204	U	0.00204	U P-10	0.00204	U P-10	0	0.00714	0.01428
DP-12	5-6.5	Fill	07/19/19	0.270	U	0.270	U	0.00204	U	2.27	P-10	0.00204	U	9,32	P-10	1.69	P-10	13.28	13.8	14.36
DP-12	10-11.5	Native	07/19/19	0.00203	U	0.00203	U	0.00203	U	0.00203	U	0.00203	U	0.00203	U	0.00203	U	0	0.00711	0.01421
DP-13	5-6.5	Fill	07/19/19	0.324	U	0.324	U	0.324	U	1.06	P-10	0.324	U	5.05	P-10	0.00203	P-10	7.09	7.74	8.38
DP-13	10-11.5	Native	07/19/19	0.00217	U	0.00217	U	0.00217	U	0.00217	U	0.00217	U	0.00217	U I	0.00217	IJ	0	0.00760	0.01519
DP-14	0.5-1.5	Fill	07/16/20	0.0424	U	0.0424	U	0.0424	U	0.0424	U	0.0424	U	0.830	P-10,Q-39, Q-42	0.261	P-10,Q-39, Q-42	1.09	1.20	1.30
DP-14	1.5-2.5	Native	07/16/20	0.00215	U	0.00215	U	0.00215	U	0.00215	U	0.00215	U	0.00215	U	0.00215	U	0	0.00753	0.0151
DP-15	1-2	Fill	07/16/20	0.209	U	0.209	U	0.209	U	0.209	U	11.5	P-10	0.209	U	0.938	P-10	12.4	13.0	13.5
DP-15	2.5-3.5	Native	07/16/20	0.00208	U	0.00208	U	0.00208	U	0.00208	U	0.00208	U	0.00208	U	0.00208	U	0	0.00728	0.01456
DP-16	6-7	Native	07/16/20	0.00207	U	0.00207	U	0.00207	U	0.00207	U	0.00207	U	0.00207	U	0.00207	U	0	0.00725	0.01449
DP-17	0.5-1.5	Fill	07/16/20	0.00230	U	0.00230	U	0.00230	U	0.00230	U	0.00230	U	0.0287	<u> </u>	0.00230	U	0.0287	0.0356	0.0425
DP-17	2-3	Native	07/16/20	0.00242	U	0.00242	U	0.00242	U	0.00242	U	0.00242	U	0.00242	U	0.00242	U	0	0.00847	0.01694
DP-18	2-3	Fill	07/16/20	0.00246	U	0.00246	U	0.00246	U	0.00246	U	0.00246	U	0.00246	U	0.00246	U	0	0.00861	0.01722
DP-19	0.5-1.5	Fill	07/16/20	0.00230	U	0.00230	U	0.00230	U	0.00230	U	0.00230	U	0.00230	U	0.00230	U	0	0.00805	0.01610
EPA Portland Hai	bor CULs ¹			NE		NE		NE		NE		NE			NE		NE	0.009	0.009	0.009
DEQ JSCS SLVs ²		COLS				NE		NE		NE		1.5			0.300		0.200	0.00039	0.00039	0.00039

- Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020
 Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005

- P-10: Result estimated due to the presence of multiple PCB Arochlors and/or matrix interference.
- Q-39: Results for sample duplicate are significantly higher than the sample results. The duplicate results in QC section of the report.
- Q-42: Matrix spike and/or duplicate analysis was performed on this sample. Percent recovery or RPD for this analyte is outside the laboratory control limits. U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than regulatory screening level.

Italics indicate detection limit is greater than EPA Portland Harbor CULs and/or DEQ JSCS SLVs.

Soil represented by this samples was subsequently removed.

TABLE A-6

Summary of Soil Sample Chemical Analytical Results Total Metals Former Automatic Vending Company

Former Automatic Vending Company 5001 North Lagoon Avenue Portland, Oregon

				•													
Boring/ Sample I.D.	Sample Depth	Fill or Native	Sample Date							EPA Me	al Metals ethod 6020A mg/kg)						
Campio iizi	(feet BGS)	, rativo		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Copper	Lead	Mercury	Nickel	Selenium	Silver	Thallium	Zinc
DP-1	11-12.5	Native	07/18/19		2.48	102		0.359	11.0		2.50	0.0452 U	_	0.565 U	0.113 U		
DP-2	11-12.5	Native	07/18/19		2.56	61.4		0.357	9.23		2.17	0.0441 U		0.552 U	0.110 U		
DP-3	10-11.5	Native	07/18/19		2.20	61.4		0.297	8.36		2.09	0.0639 J		0.559 U	0.112 U		
DP-4	11.5-13	Native	07/19/19		2.55	59.9		0.381	9.53		2.41	0.0435 U		0.544 U	0.109 U		
DP-5	10-11.5	Native	07/19/19		2.39	67.4		0.383	10.4		2.62	0.0465 U		0.581 U	0.116 U		
DP-10	6-7.5	Native	07/19/19	0.619 U	2.12	75.7	0.272	0.362	11.5	14.1	3.42	0.0495 U	17.0	0.619 U	0.124 U	0.124 U	39.3
DP-11	6-7.5	Fill	07/19/19	6.74	51.3		0.111 U	1.05	201	2,410	480	14.9	10.3	0.554 U	0.315	0.111 U	1,650
DP-11	10-11.5	Native	07/19/19	0.576 U	1.84		0.280	0.115 U	6.49	10.7	1.96	0.0461 U, H-06	12.0	0.576 U	0.115 U	0.115 U	26.3
DP-12	5-6.5	Fill	07/19/19	102	172		0.109 U	1.81	212	4,240	1,110	36.0	24.6	0.546 U	0.215 J	0.109 U	2,790
DP-12	10-11.5	Native	07/19/19	0.559 U	2.31		0.262	0.112 U	9.15	12.2	2.41	0.0447 U, H-06	15.6	0.559 U	0.112 U	0.112 U	33.3
DP-13	5-6.5	Fill	07/19/19	2.26	55.1		0.243 J	0.902	114	2,320	475	19.7	23.0	0.643 U	0.136 J	0.129 U	936
DP-13	10-11.5	Native	07/19/19	0.579 U	1.87		0.233	0.116 U	7.70	11.1	2.11	0.0463 U, H-06	13.3	0.579 U	0.116 U	0.12 U	29.3
DP-14	0.5-1.5	Fill	07/16/20	1.76	21.0	117	_	0.985	50.8	878	194	4.94		0.613 U	0.133	1	609
DP-14	1.5-2.5	Native	07/16/20	0.588 U	1.91	52.5	_	0.118 U	10.9	11.5	2.17	0.0470 U	-	0.588 U	0.118 U	ı	33.3
DP-15	1-2	Fill	07/16/20	7.02	123	120	_	1.06	140	4,420	1,180	26.1	-	0.582 U	0.246	-	1,460
DP-15	2.5-3.5	Native	07/16/20	0.540 U	2.68	61.4	_	0.108 U	11.7	15.0	2.85	0.0561		0.540 U	0.108 U	ı	39.5
DP-16	6-7	Native	07/16/20	0.527 U	2.63	77.9	_	0.105 U	13.0	14.8	2.52	0.0444 J	_	0.527 U	0.105 U	_	42.1
DP-17	0.5-1.5	Fill	07/16/20	0.618 U	3.37	144	_	0.124 U	25.4	44.1	10.7	0.158 B-02	_	0.618 U	0.124 U	-	65.5
DP-17	2-3	Native	07/16/20	0.627 U	2.99	150	_	0.125 U	23.1	23.8	4.21	0.0650	-	0.627 U	0.125 U	_	53.6
DP-18	2-3	Fill	07/16/20	0.666 U	4.19	151	_	0.133 U	21.9	21.9	4.65	0.0615	-	0.666 U	0.133 U	-	55.9
DP-19	0.5-1.5	Fill	07/16/20	0.592 U	3.09	87.8	_	0.118 U	17.2	20.2	3.48	0.0529 J	-	0.592 U	0.118 U	-	46.3
EPA Portland Ha	orbor CULs ¹			NE	3	NE	NE	0.51	NE	359	196	0.085	NE	NE	NE	NE	459
DEQ JSCS SLVs ²				64	7	NE	NE	1	111	149	17	0.07	48.6	2	5	NE	459
Background Con	centrations			0.56	8.8	790	2	0.63	76	34	28	0.23	47	0.71	0.82	5.2	180

Votes

- 1. Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020
- 2. Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005

B-02: Analyte detected in an associated blank at a level between one-half the MRL and the MRL.

H-06: This sample was analyzed outside the recommended holding time.

NE: not established

U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than regulatory screening level.

--: not analyzed

TABLE A-7

Summary of Groundwater Sample Chemical Analytical Results Petroleum Hydrocarbons Former Automatic Vending Company 5001 North Lagoon Avenue Portland, Oregon

Sample I.D.	Sample Date	Screen Interval	Gasoline-Rang Hydrocarbons Method NWTPH	;		d Oil-Rang ethod NW (µg/L		
		(feet BGS)	(µg/L)		Diesel-Range	;	Oil-Range	
DP-1W	07/18/19	20 - 30	50.0	U	94.3	U	189	U
DP-2W	07/18/19	20 - 30	50.0	U	94.3	U	189	U
DP-3W	07/18/19	25 - 35	58.8		94.3	U	189	U
DP-14W	07/16/20	24 - 34	50.0	U	96.2	U	192	U
DP-15W	07/16/20	20 - 35	50.0	U	96.2	U	192	U
DP-16W	07/16/20	20 - 30	50.0	U	96.2	U	192	U
DP-16W-DUP	07/16/20	20 - 30	50.0	U	98.0	U	196	U
DP-17W	07/16/20	20 - 35	50.0	U	96.2	U	192	U
DP-18W	07/16/20	19.5 - 34.5	50.0	U	96.2	U	192	U
DP-19W	07/16/20	20 - 35	50.0	U	96.2	U	192	U
EPA Portland Harbo	or CULs ¹		NE		NE		NE	
DEQ JSCS SLVs ²			NE		NE		NE	

Notes:

- 1. Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020
- 2. Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005

NE: not established

U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.



TABLE A-8 Summary Groundwater Sample Chemical Analytical Results VOCs

Former Automatic Vending Company 5001 North Lagoon Avenue Portland, Oregon

Sample I.D.	Sample Date	Screen Interval (feet BGS)			VOC EPA Methods 8260 (µg	OC and 8260C-SIM		
			cis-1,2-DCE	trans-1,2-DCE	Ethylbenzene	MTBE	PCE	TCE
DP-1W	07/18/19	20 - 30	0.0100	U 0.0100 U	0.0500 U	0.0100 L	0.601	0.0100 U
DP-2W	07/18/19	20 - 30	1.49	0.0181 J	0.0500 U	0.0100 L	10.5	1.86
DP-3W	07/18/19	25 - 35	0.651	0.0100 U	0.0500 U	0.0100 L	16.6	0.909
DP-14W	07/16/20	24 - 34	3.18	0.0104 J	0.0818 J	0.0100 L	1.71	2.06
DP-15W	07/16/20	20 - 35	0.0200	U 0.0100 U	0.0545	0.0100 L	0.0465	0.0200 U
DP-16W	07/16/20	20 - 30	0.0100	U 0.0100 U	0.0500 U	0.0100 L	0.0100 U	0.0100 U
DP-16W-DUP	07/16/20	20 - 30	0.0100	U 0.0100 U	0.0500 U	0.0100 L	0.0100 U	0.0100 U
DP-17W	07/16/20	20 - 35	0.0100	U 0.0100 U	0.0500 U	0.0100 L	J 0.0100 U	0.0100 U
DP-18W	07/16/20	19.5 - 34.5	0.0100	U 0.0100 U	0.0500 U	0.0100 L	J 0.0100 U	0.0100 U
DP-19W	07/16/20	20 - 35	0.0100	U 0.0100 U	0.0500 U	0.0215	0.0100 U	0.0100 U
EPA Portland Harbor Cl	JLs ²		9.9	NE	7.3	NE	0.24	0.6
DEQ JSCS SLVs ³			61.0	110	7.3	NE	0.12	0.17

Notes:

- 1. Only VOCs detected are shown.
- 2. Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020
- 3. Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005

NE: not established

U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than regulatory screening level.

																SVOCs												
															EPA Me	thod 8270D-S	IM											
				1	1	1	1		1	1		1		ı	_	(µg/L)		1		1	1	1	1	1	1	1	1	T
Sample I.D.	Sample Date	Screen Interval (feet BGS)	Acenaphthene	Acenaphthylene	Anthracene	Benzyl Alcohol	Di-n-butylphtalate	Bis(2-ethylhexyl)phthalate	Benzoic Acid	Вепд́а)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(k)fluoranthene	Benzo(g,h,i)perylene	Carbazole	Chrysene	Dibenz(a,h)anthracene	Dibenzofuran	PCP	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Phenol	Pyrene
DP-1W	07/18/19	20 - 30	0.00935 L	0.00935 L	J 0.00935 U	0.524	0.187	U 0.187 L	2.08	0.00935 U	0.0140 U	0.0140 U	0.0140 U	0.00935 L	0.0140 U	0.00935	J 0.00935 U	0.00935	J 0.0935 U	0.00935 U	0.00935 U	0.00935 U	0.0187	U 0.0187 U	0.0187 U	0.00976 J	0.207 J	0.00935 U
DP-2W	07/18/19	20 - 30	0.0374 L	J 0.0374 L	J 0.0374 U	9.54	0.748	U 0.748 L	4.67 L	0.0374 U	0.0561 U	0.0561 U	0.0561 U	0.0374 L	0.0561 U	0.0374	J 0.0374 U	0.0374	J 0.374 U	0.0374 U	0.0374 U	0.0374 U	0.0748	U 0.0748 U	0.075 U	0.0374 U	0.748 U	0.0374 U
DP-3W	07/18/19	25 - 35	0.00943 L	0.00943 L	J 0.00943 U	0.0943 U	0.189	U 0.189 L	1.18 L	0.00943 U	0.0142 U	0.0142 U	0.0142 U	0.00943 L	0.0142 U	0.00943	J 0.00943 U	0.00943	J 0.0943 U	0.00943 U	0.00943 U	0.00943 U	0.0189	U 0.0189 U	0.0189 U	0.0154 J	0.189 U	0.00943 U
DP-14W	07/16/20	24 - 34	0.00935 L	0.00935 L	J 0.00935 U	0.094 U	0.245	J 0.187 l	1.17 U	0.00935 U	0.0140 U	0.0140 U	0.0140 U	0.00935 L	0.0140 U	0.00935	J 0.00935 U	0.00935	J 0.0935 U	0.00935 U	0.0125 J	0.00935 U	0.0187	U 0.0187 U	0.0226 J	0.0247	0.187 U	0.00936 J
DP-15W	07/16/20	20 - 35	0.00943 L	0.00943 L	J 0.00943 U	0.0943 U	0.189	U 0.189 L	1.18 U	0.00943 U	0.0142 U	0.0142 U	0.0142 U	0.00943 L	0.0142 U	0.00943	J 0.00943 U	0.00943	J 0.0943 U	0.00943 U	0.00943 U	0.00943 U	0.0189	U 0.0189 U	0.0189 U	0.00962 J	0.189 U	0.00943 U
DP-16W	07/16/20	20 - 30	0.00952 L	J 0.00952 L	J 0.00952 U	0.0952 U	0.190	U 0.190 L	1.19 l	0.00952 U	0.0143 U	0.0143 U	0.0143 U	0.00952 L	0.0143 U	0.00952	J 0.00952 U	0.00952	J 0.0952 U	0.00952 U	0.00952 U	0.00952 U	0.0190	U 0.0190 U	0.0190 U	0.00952 U	0.190 U	0.00952 U
DP-16W-DUP	07/16/20	20 - 30	0.00962 L	J 0.00962 L	J 0.00962 U	0.0962 U	0.192	U 0.192 L	1.20 L	0.00962 U	0.0144 U	0.0144 U	0.0144 U	0.00962 L	0.0144 U	0.00962	J 0.00962 U	0.0110	J 0.0962 U	0.00962 U	0.0192 U	0.00962 U	0.0282	J 0.0379 J	0.0192 U	0.0147 J	0.192 U	0.0175 J
DP-17W	07/16/20	20 - 35	0.00943 L	0.00943 L	J 0.00943 U	0.0943 U	0.189	U 0.189 L	1.18 L	0.00943 U	0.0142 U	0.0142 U	0.0142 U	0.00943 L	0.0142 U	0.00943 U	J 0.00943 U	0.00943	J 0.0943 U	0.00943 U	0.00943 U	0.00943 U	0.0189	U 0.0189 U	0.0189 U	0.0094 U	0.189 U	0.00943 U
DP-18W	07/16/20	19.5 - 34.5	0.00943 L	0.00943 L	J 0.00943 U	0.0943 U	0.189	U 0.189 l	1.18 l	0.00943 U	0.0142 U	0.0142 U	0.0142 U	0.00943 L	0.0142 U	0.00943 U	J 0.00943 U	0.00943	J 0.0943 U	0.00943 U	0.00943 U	0.00943 U	0.0189	U 0.0189 U	0.0189 U	0.0106 J	0.189 U	0.00943 U
DP-19W	07/16/20	20 - 35	0.0124	0.00943 L	0.0239	0.0943 U	0.189	U 0.189 L	1.18 l	0.00943 U	0.0142 U	0.0142 U	0.0142 U	0.00943 L	0.0194 J	0.00943	J 0.00943 U	0.00971	J 0.0943 U	0.0488	0.0124	0.00943 U	0.0189	U 0.0189 U	0.0189 U	0.107	0.189 U	0.0499
EPA Portland Ha	rbor CULs ¹		23	NE	0.73	NE	NE	NE	NE	0.0012	0.00012	0.0012	0.0013	NE	NE	0.00130	0.00012	NE	0.03	NE	NE	0.0012	NE	NE	NE	NE	NE	NE
DEQ JSCS SLVs ²			0.2	0.2	0.2	8.6	3.0	2.2	42	0.018	0.018	0.018	0.018	0.2	3.4	0.018	0.018	3.7	0.56	0.2	0.2	0.018	2.1	0.2	0.2	0.2	2,560	0.2

Notes:

1. Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020

2. Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005

J. Estimated result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

NE: not established

U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than regulatory screening level.

Italics indicate detection limit is greater than EPA Portland Harbor CULs and/or DEQ JSCS SLVs.

TABLE A-10 Summary of Groundwater Sample Chemical Analytical Results PCBs

Former Automatic Vending Company 5001 North Lagoon Avenue Portland, Oregon

Sample I.D.	Sample Date	Screen Interval				PCBs EPA Method 8082 (µg/L)					Total PCBs (µg/L)	
		(feet BGS)	PCB 1016	PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260	0	1/2 DL	DL
DP-1W	07/18/19	20 - 30	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0	0.0679	0.1358
DP-2W	07/18/19	20 - 30	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0	0.0665	0.1330
DP-3W	07/18/19	25 - 35	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0.0190 U	0	0.0665	0.1330
DP-14W	07/16/20	24 - 34	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0	0.0679	0.1358
DP-15W	07/16/20	20 - 35	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0.0194 U	0	0.0679	0.1358
DP-17W	07/16/20	20 - 35	0.0192 U	0.0192 U	0.0192 U	0.0192 U	0.0192 U	0.0192 U	0.0192 U	0	0.0672	0.1344
EPA Portland Ha	rbor CULs ¹		NE	NE	NE	NE	NE	NE	NE	0.0000064	0.0000064	0.0000064
DEQ JSCS SLVs ²			0.96	0.034	0.034	0.034	0.034	0.034	0.034	0.0000064	0.0000064	0.0000064

Notes:

NE: not established

Italics indicate detection limit is greater than EPA Portland Harbor CULs and/or DEQ JSCS SLVs.

^{1.} Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020

^{2.} Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005

U: Not detected. Reporting or detection limit shown.

TABLE A-11 Summary of Groundwater Sample Chemical Analytical Results Total and Dissolved Metals Former Automatic Vending Company 5001 North Lagoon Avenue Portland, Oregon

Sample I.D.	Sample Date	Screen Interval (feet BGS)						EPA M	Total Metals ethod 6020A (ICP-MS) (µg/L)							EPA Method 6	d Metals 020A (ICP-MS) g/L)	
		(ICCL BGS)	Antimony	Arsenic	Beryllium	Cadmium	Chromium	Copper	Lead Mercury	Nickel	Selenium	Silver	Thallium	Zinc	Arsenic	Copper	Mercury	Lead
DP-1W	07/18/19	20 - 30	0.500 U	9.61	0.100 U	0.0577 J	0.713 J	10.2	0.720 0.108	8.35	0.500 U	0.100 U	0.100 U	9.10	9.17	-	-	-
DP-2W	07/18/19	20 - 30	0.500 U	1.19	0.100 U	0.0400 U	0.791 J	1.20	0.237 0.0400	U 2.56	0.500 U	0.100 U	0.100 U	4.03	1.15	-	-	-
DP-3W	07/18/19	25 - 35	0.500 U	0.647 J	0.100 U	0.0400 U	0.500 U	0.500 U	0.100 U 0.0400	U 9.49	0.500 U	0.100 U	0.100 U	2.00 U	0.525 J	0.500 U	_	0.100 U
DP-14W	07/16/20	24 - 34	-	1.33	-	0.100 U	_	5.62	0.584 0.0400	U –	_	_	_	6.56	1.06	1.00 U	0.0400 U	0.100 U
DP-15W	07/16/20	20 - 35	-	1.42	-	0.100 U	_	1.39	0.100 U 0.0400	U –	_	-	-	4.49	1.64	1.00 U	0.0400 U	0.100 U
DP-16W	07/16/20	20 - 30	-	0.500 U	-	-	-	1.00 U	0.100 U -	_	-	-	-	-	0.500 U	1.08 J	-	0.100 U
DP-16W-DUP	07/16/20	20 - 30	-	0.500 U	-	-	_	1.09 J	0.100 U -	_	-	-	-	-	0.500 U	1.00 U	-	0.100 U
DP-17W	07/16/20	20 - 35	_	0.831 J	_	-	_	1.00 U	0.100 U 0.0400	U –	_	_	_	-	0.873 J	1.00 U	_	0.100 U
DP-18W	07/16/20	19.5 - 34.5	-	0.500 U	-	0.100 U	_	1.00 U	0.100 U 0.0400	U –	_	-	_	2.00 U	0.500 U	1.00 U	0.0400 U	0.100 U
DP-19W	07/16/20	20 - 35	-	0.924 J	-	-	_	2.07	0.100 U -	_	_	-	-	-	1.00	1.00 U	-	0.100 U
EPA Portland Ha	rbor CULs ¹		NE	0.018	NE	0.091	11	2.74	0.54 NE	NE	NE	NE	NE	36.5	0.018	2.74	NE	0.54
DEQ JSCS SLVs ²			6	0.045	NE	0.094	100	2.7	0.54 0.77	16	5	0.12	NE	36	0.045	2.7	0.77	0.54

- 1. Table 17 of EPA's Record of Decision for the Portland Harbor Superfund Site, updated January 2020
- 2. Table 3.1 of DEQ's Portland Harbor Joint Source Control Strategy, dated December 2005
- J: Estimated result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

NE: not established

U: Not detected. Reporting or detection limit shown.

Bolding indicates analyte detection.

Shading indicates analyte detection at a concentration greater than regulatory screening level.

Italics indicate detection limit is greater than EPA Portland Harbor CULs and/or DEQ JSCS SLVs.

-: not analyzed

APPENDIX B

12526

FORM W 271

(2.60)

Between

SANITARY ONLY #79195

Pmt. No. 79194

CITY OF PORTLAND, OREGON

DEPARTMENT OF PUBLIC WORKS BUREAU OF MAINTENANCE SEWER BRANCH

Date Feb. 18, 1963

5001 N. Lagoon Ave.

Lot Part of TL 14

Addition Sec. 20, IN. 1E. Applicant Tomp Control Corp. Remarks 79194-All measurements

& Inspections by Raz. Construction Inspector. 8"C.S.P. 61' W

of MH at N. Ballast St. 9' deep, 79195-Meas. & Insp. byRaz, Constr. Insp. 8" C.S.P. 236' W of MH at N. Ballast St.9'deep.

Inspected

Book

3EC, 20 TIM, RIE, W.M. (43) 277.45 /4 BALLAST

10 5 5001 PART OF THE LOT (14) SEC, 20, 18.16. RY ONLY 12526

CITY OF PORTLAND, OREGON DEPARTMENT OF PUBLIC WORKS

SEWER BRANCH

Pmt. No. 79196 -7 Date 3-7-63 19

Location 5001 N. Lagoon Ave.

FORM W 271 1

(2, 60)

Between

Addition Sec. 20, IN., IE. Lot Pt. T. L. 14 Blk. Applicant Temp-Control Corp. Remarks 10 C.S.P. to riser. 126' east of MH in front of property. 8' at riser

6' deep at propline. 79197: 10" CSP to riser 300' east of MH to the west of

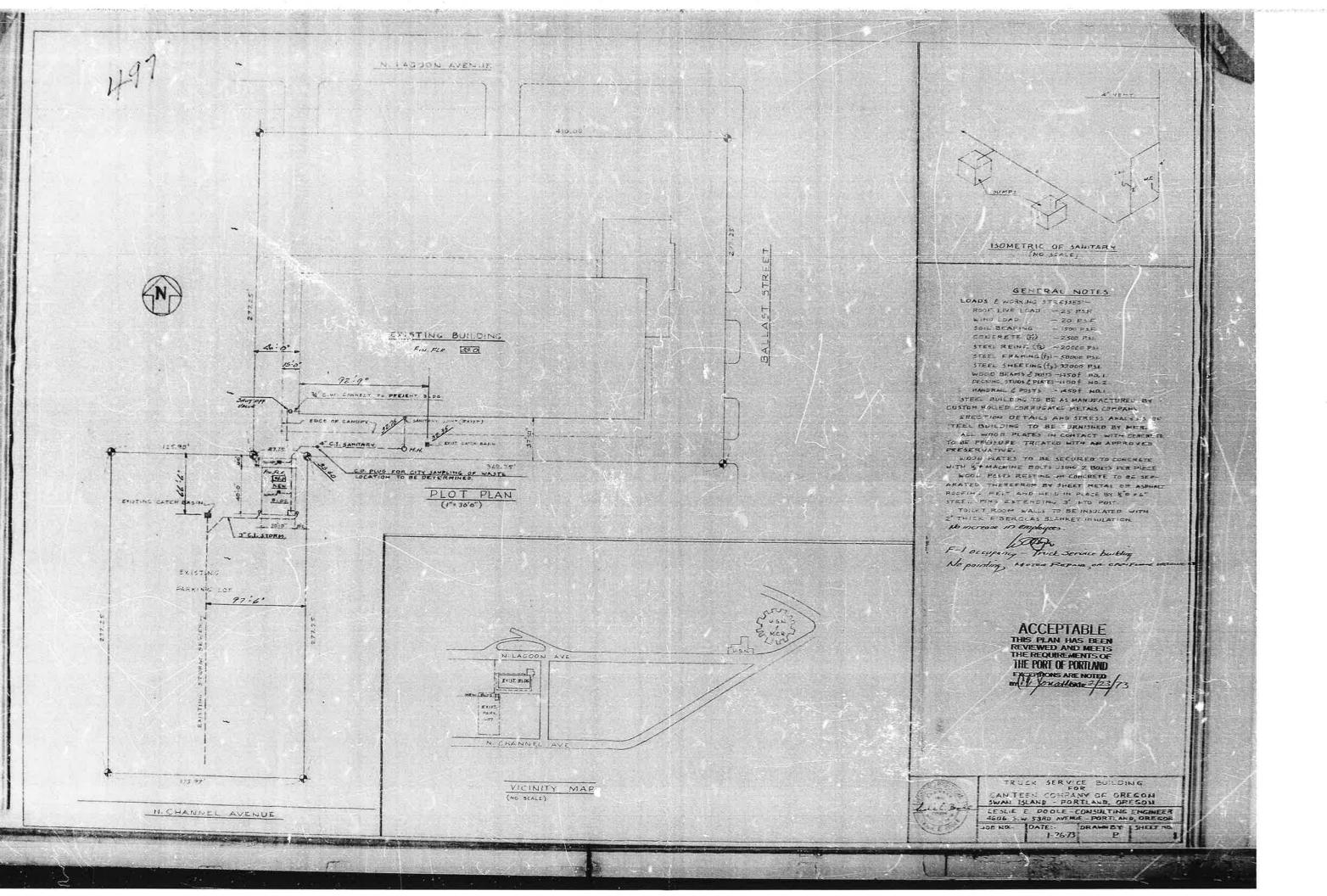
property. 8' deep at riser.6' at property line.

| Inspected | 3-7-63 | 19 | By P.Grossi | | New |

Repair

MHF 18600x STORM NISE X PART OF TAX LOT (4) 1015 x 12 SEC . 20, 18, 1E.

. 25-26 TORM W 271-1 (7-83)		OA & FOSTA RIMENT OF MA BUREAU OF MA SEWER B	PUBLIC WOF	KKS .	No. 8659	
Location Between N.	5001 N. <u>La</u> _Channel <i>I</i>	igo <u>on</u> Ave		-		
Addition TL	7 <u>2</u> and 93 onohue & 1	Sec.	20, 1N1	çot s	Bli	c. ;
<u>8"</u> CSP	to maint. st. 13' d	Tap 344'	southea	st of M		
	-			-	-	
	2-13-68 Page		Grossi	Керг	- · - air	-



APPENDIX C



Profile #: 455304 **Manifest ID** 128834

Generator Name: BCS America Address: 5001 N Lagoon

Portland, OR, 97217

Wash out?:

Yes

Same as **Transporter?**

Yes

Billing Firm: Stratus Corporation

Waste Description (choose one):

Oil/Water

Unit:

Pounds

Initial Weight (lbs): 51620 Final Weight (lbs): 42440

> Solids?: No

Total Weight (lbs):

Color: Black Odor 7 pH: None

Liquid Phase: 90 Sludge/Solids: 10

Total Gallons: Total Solids (Tons): 991.84 0.46

Method of **Shipment:**

Vac Truck

Weight Ticket:



Manifest_2021012...

Does This Manifest Need a Change

Order?:

No

Relinquished By

(Driver Signiture):

Driver Name:

Dennis

62

Truck License #:

Michael Douglas Shockley **PPV Technician:**

PPV Acceptance:

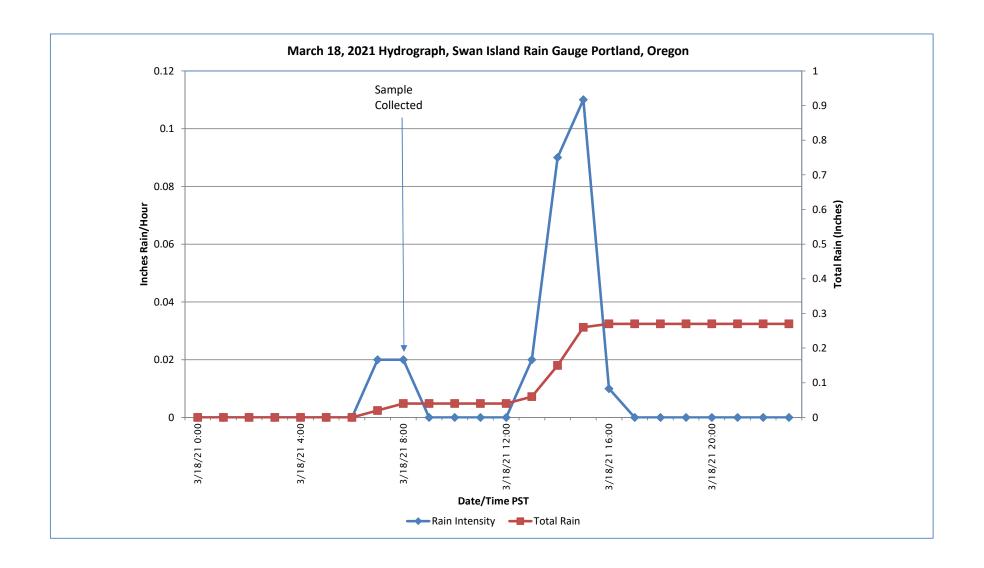
Approved

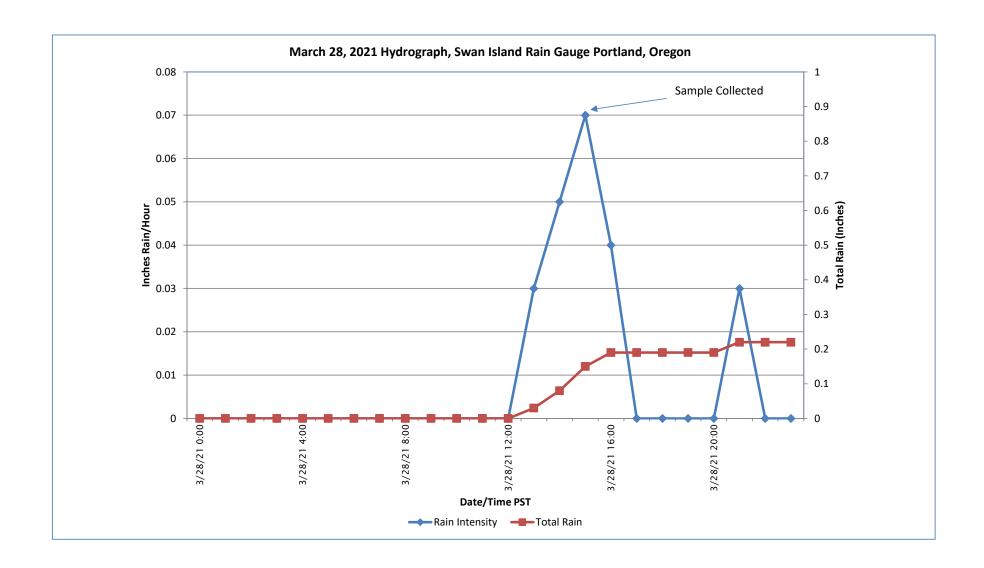
Tuesday, January 26, 2021 **Date**

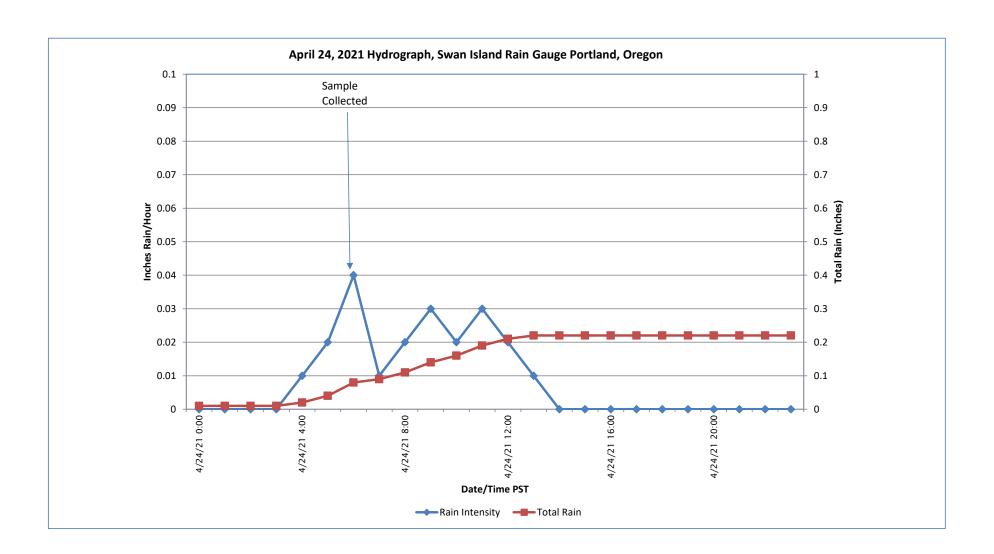
Time

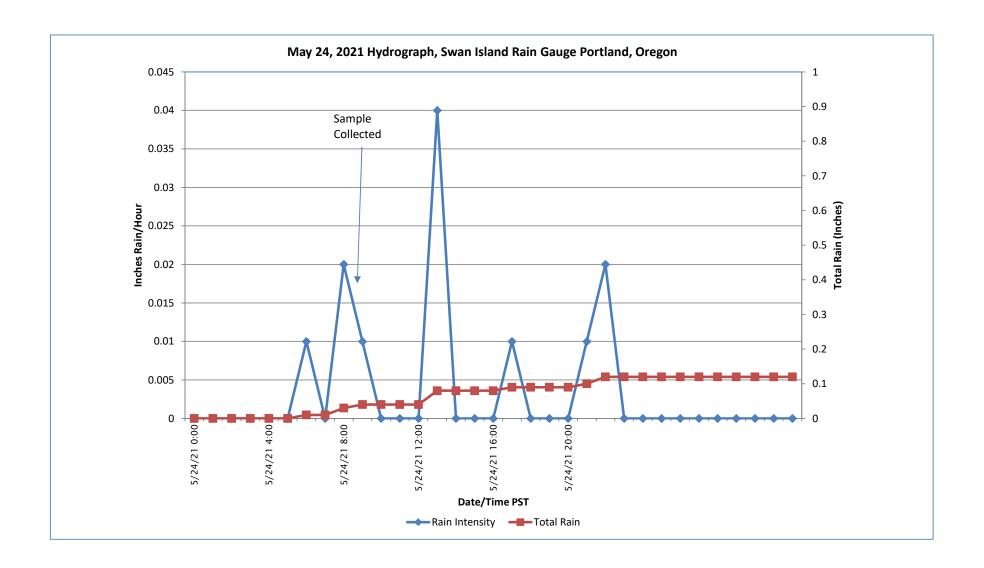
7:08 AM

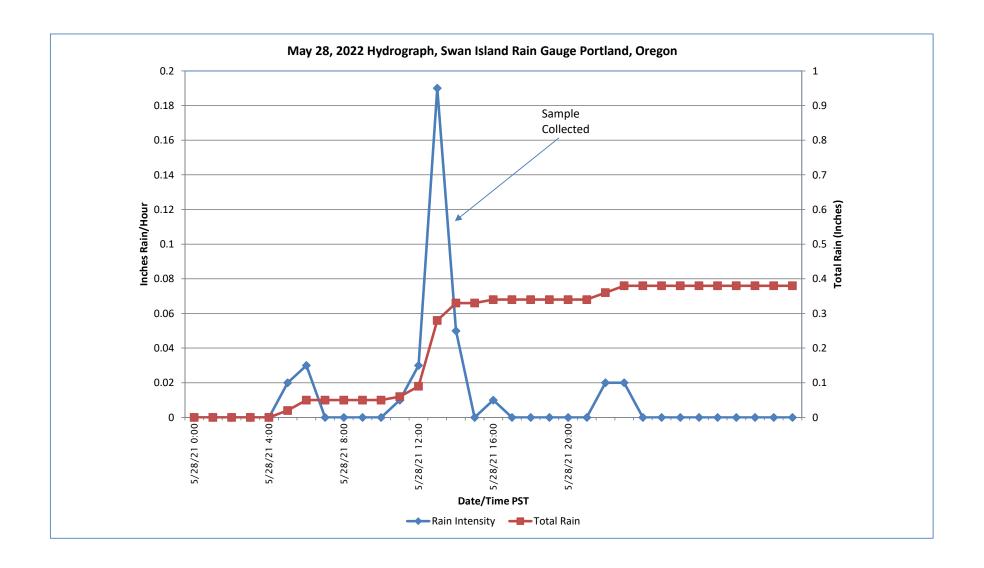
APPENDIX D



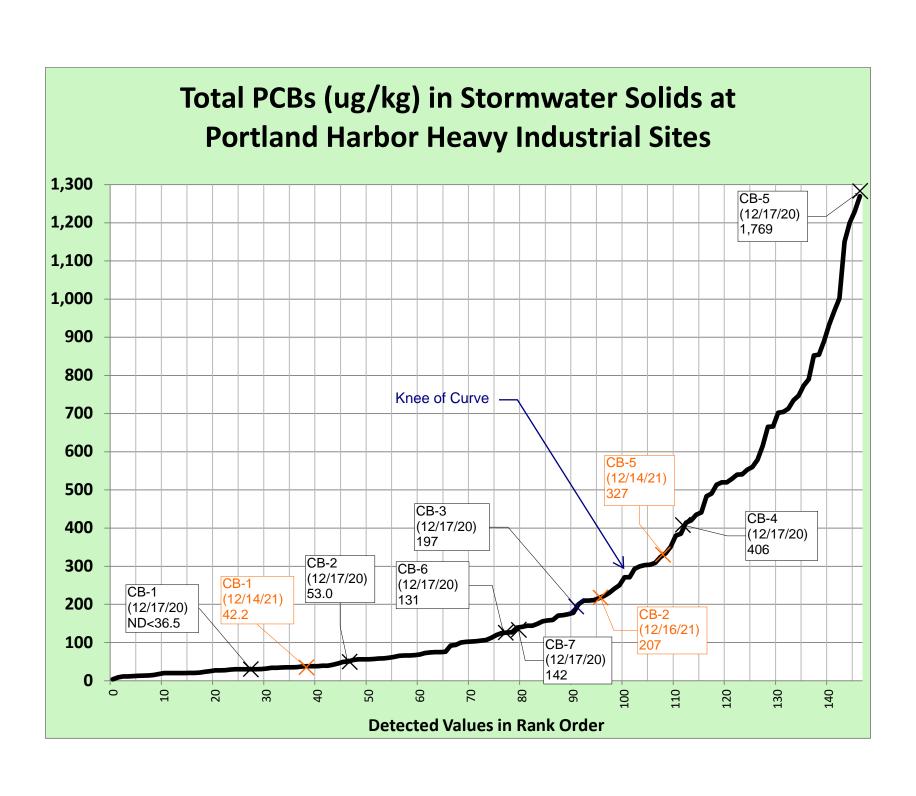


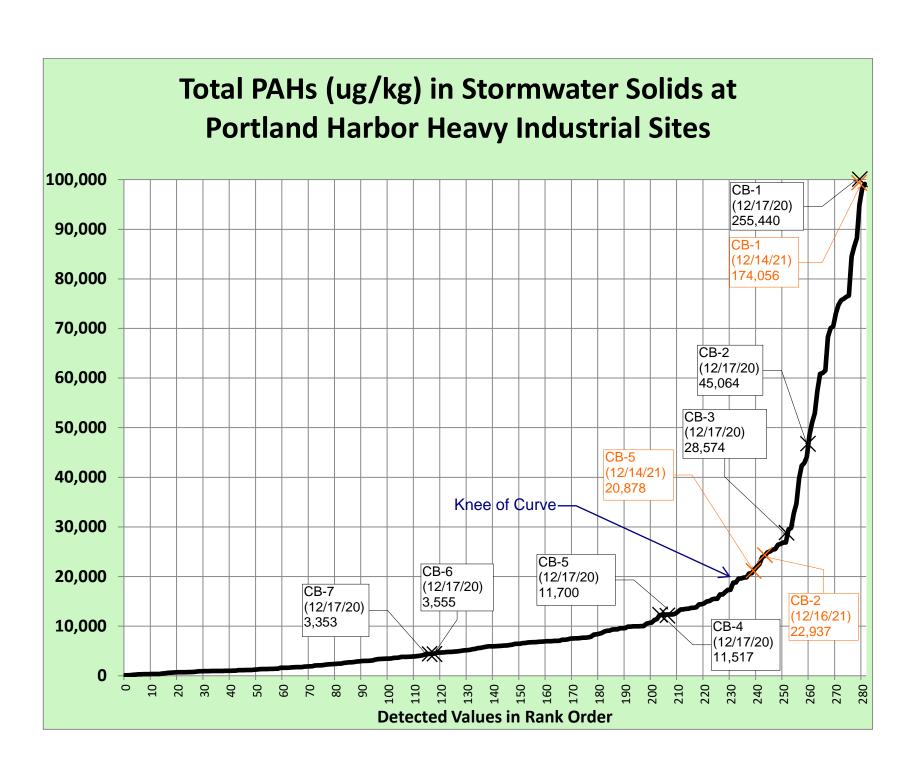


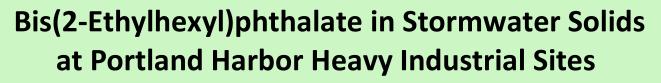


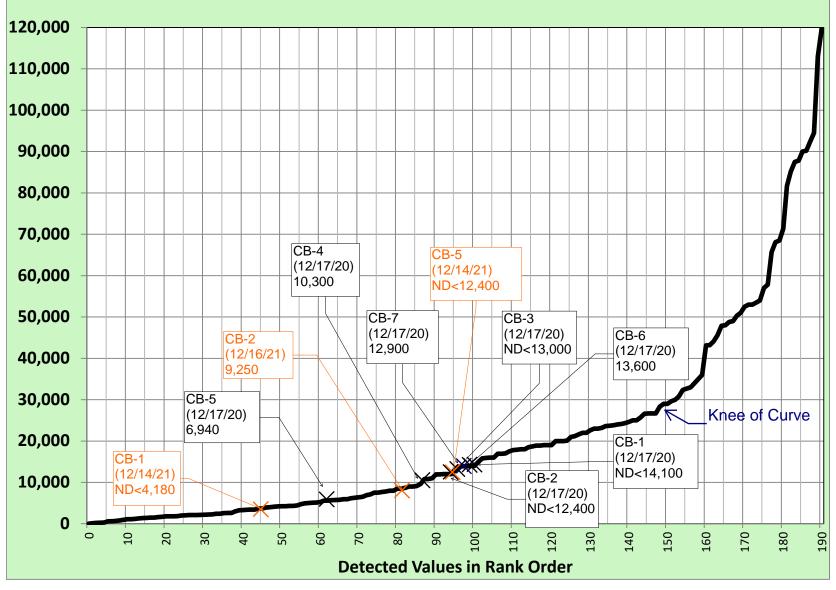


APPENDIX E

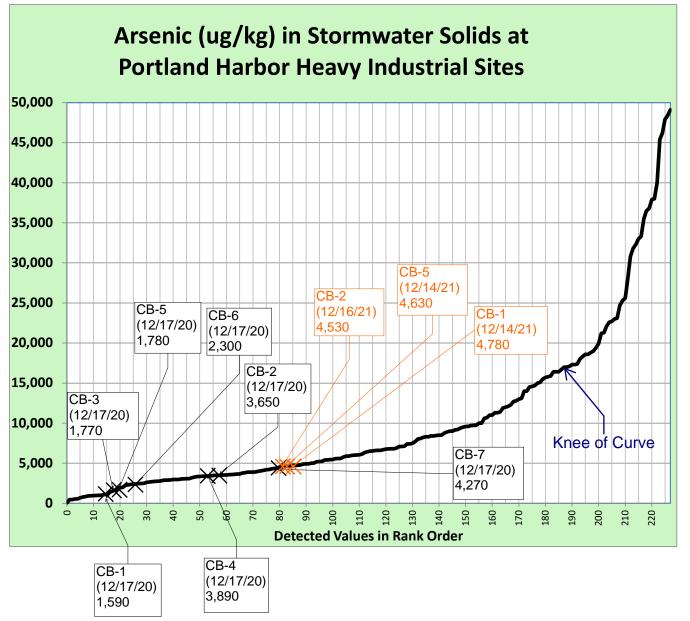


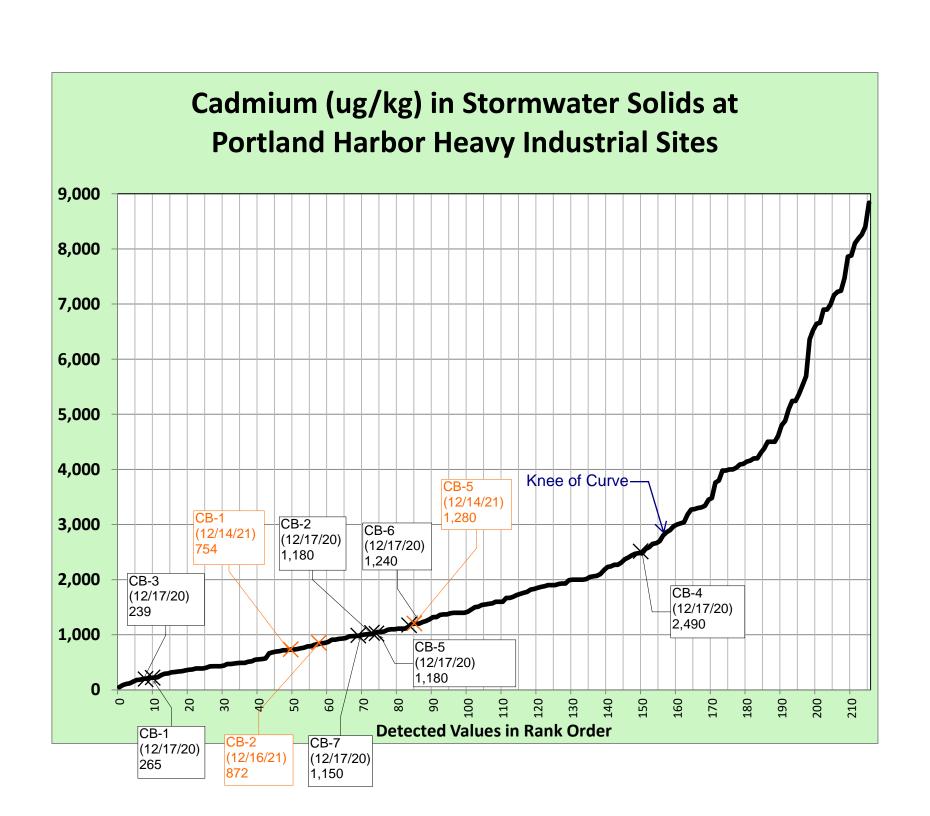


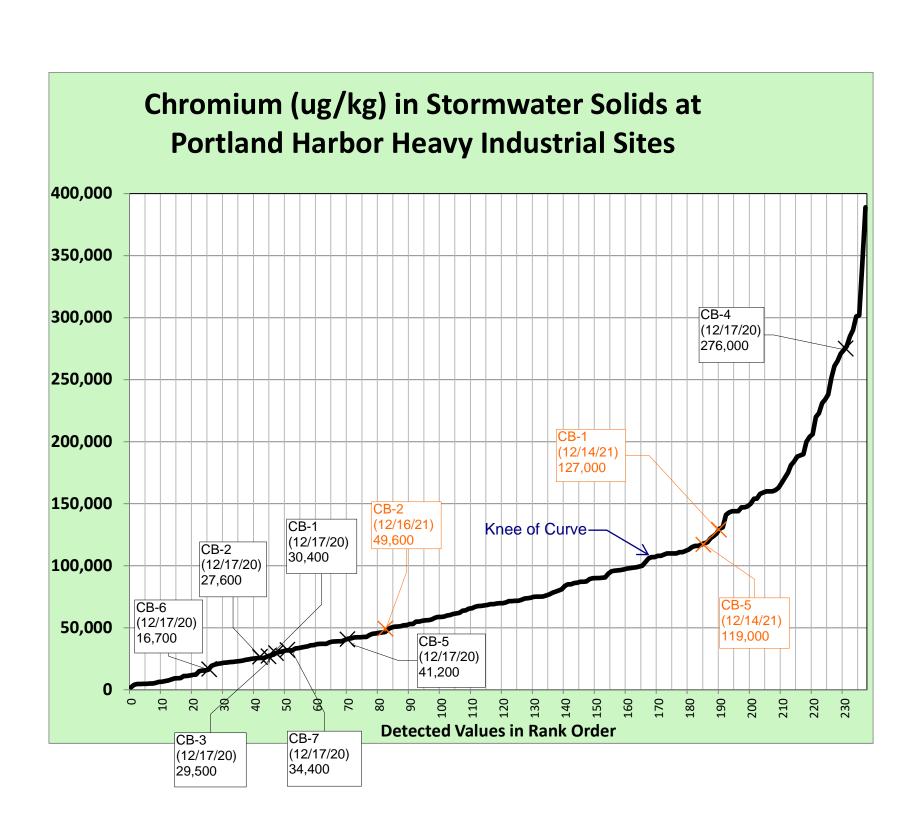


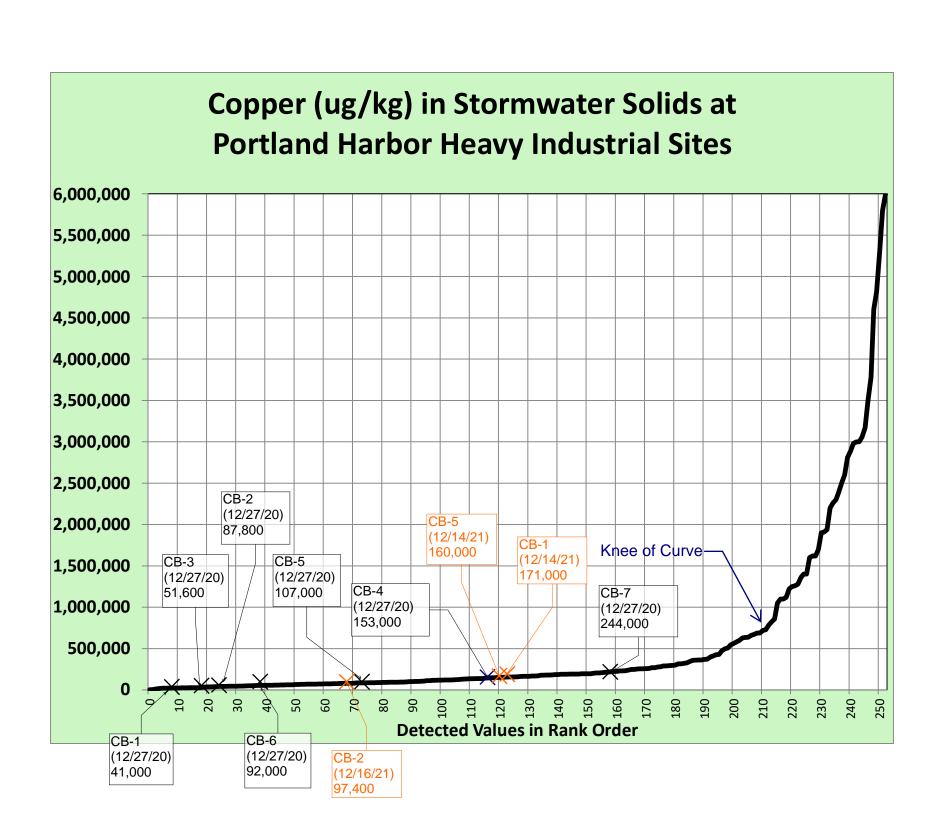


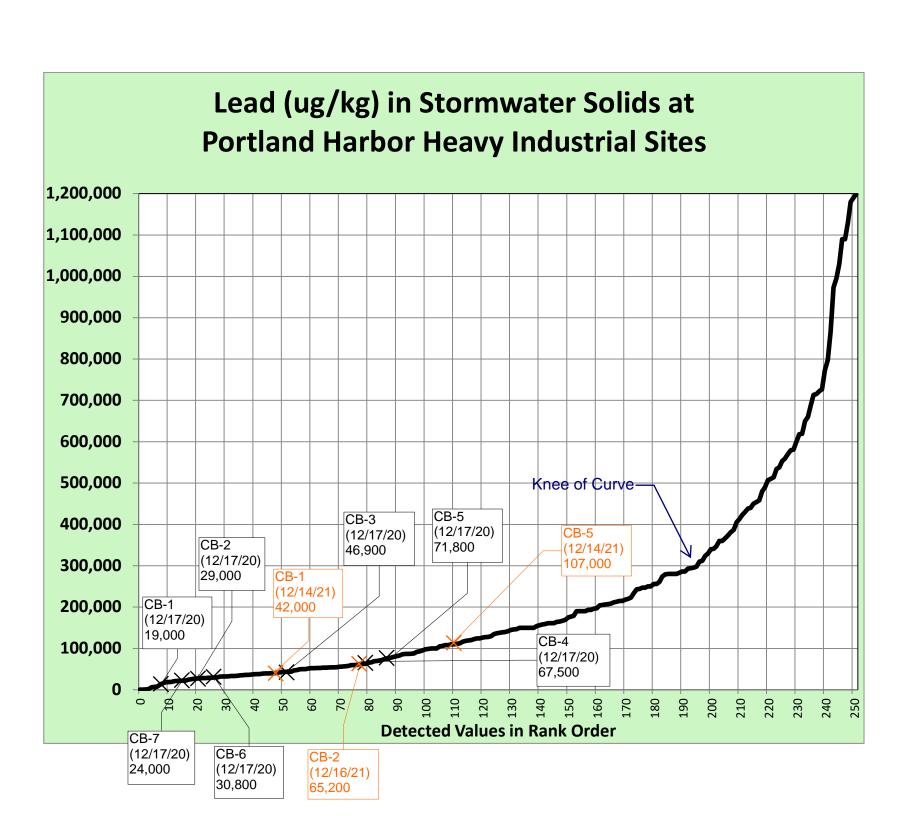


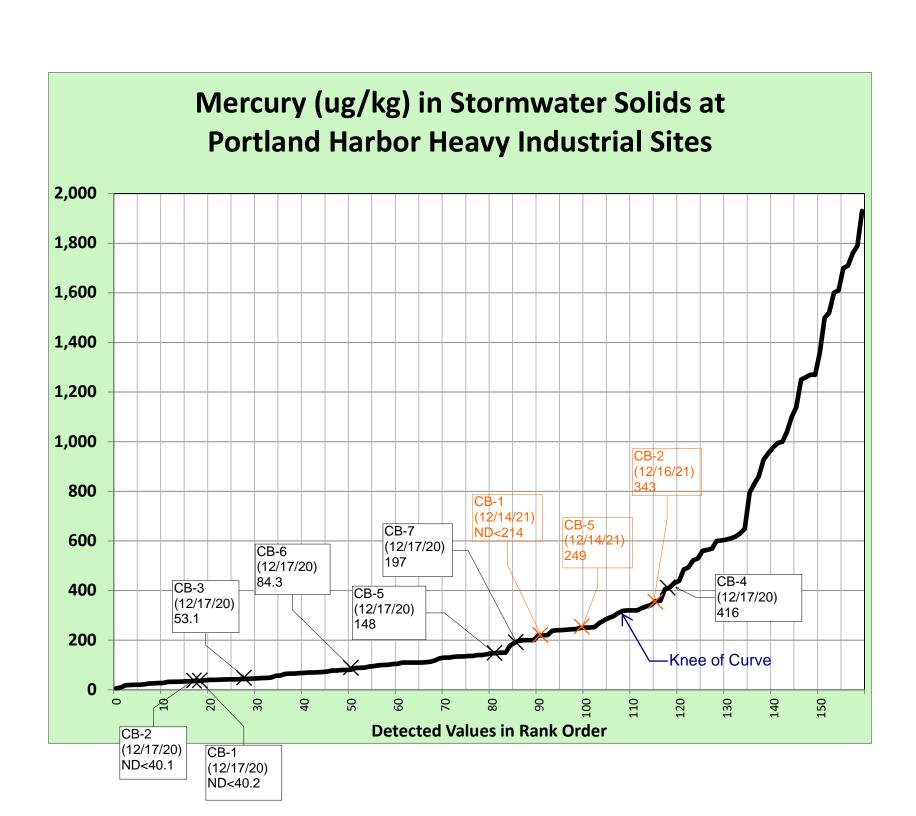


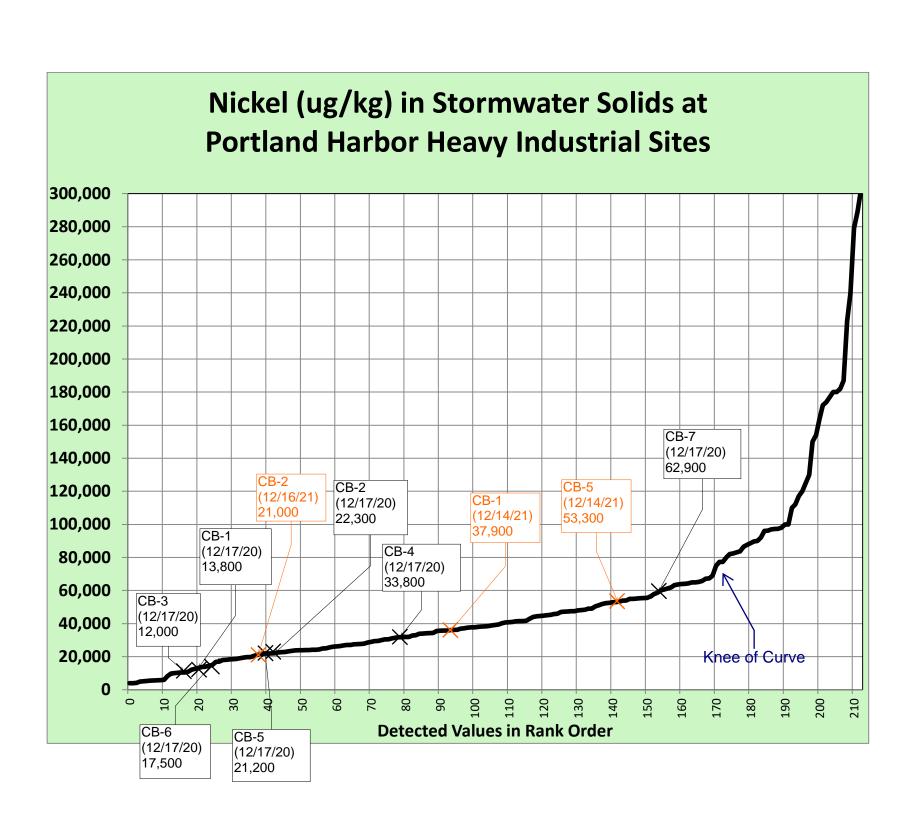


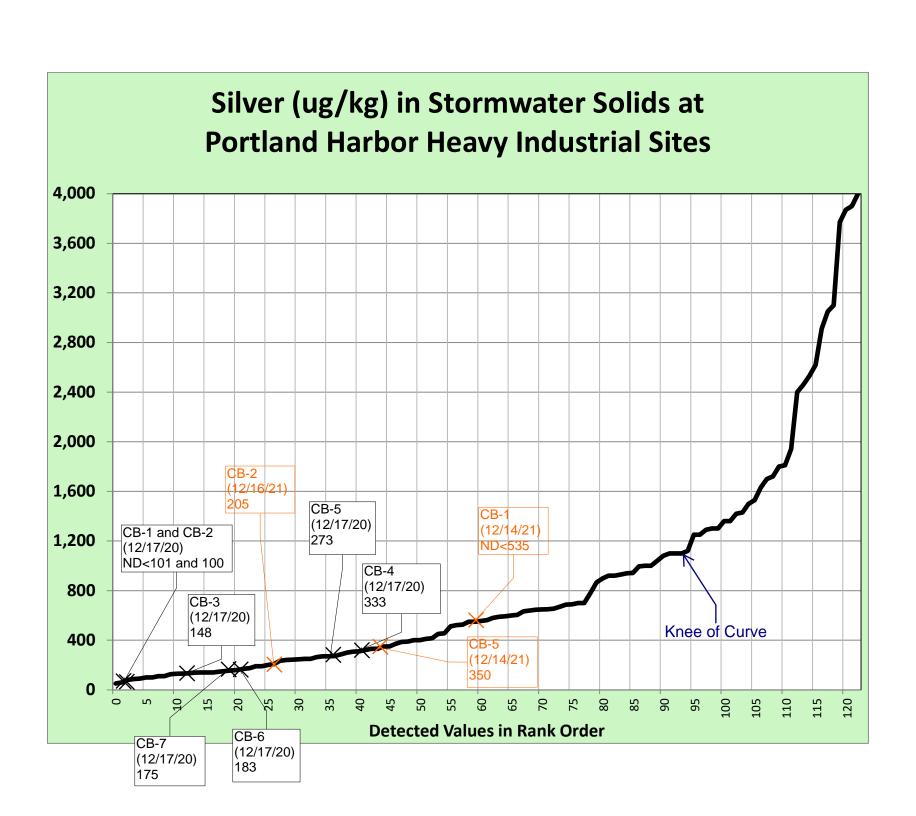


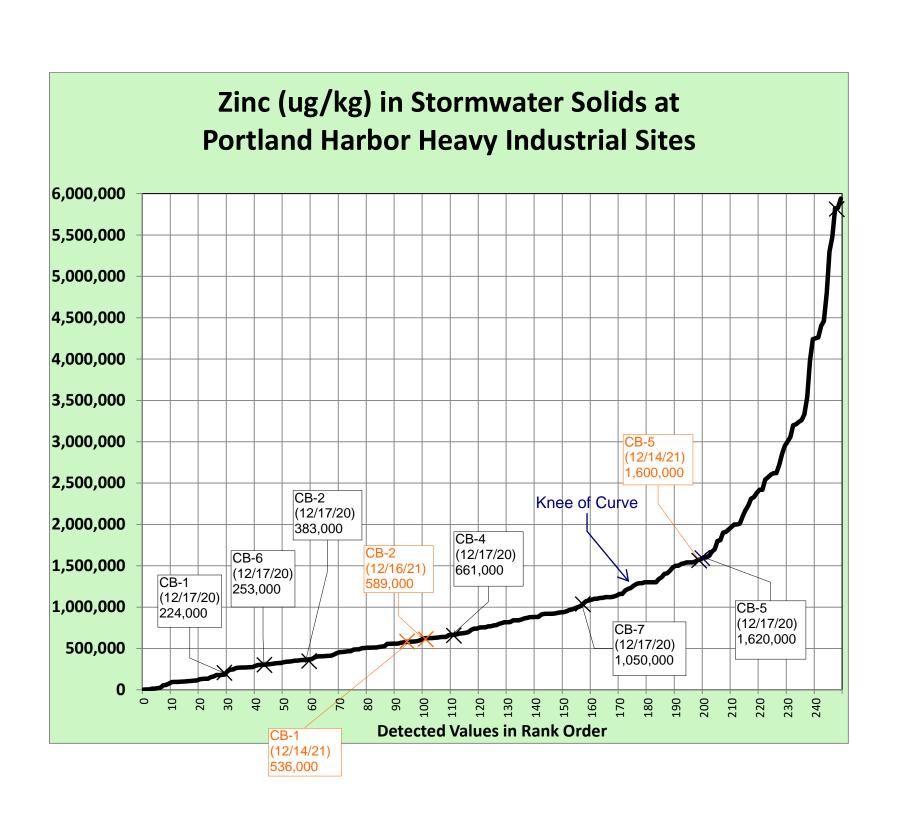


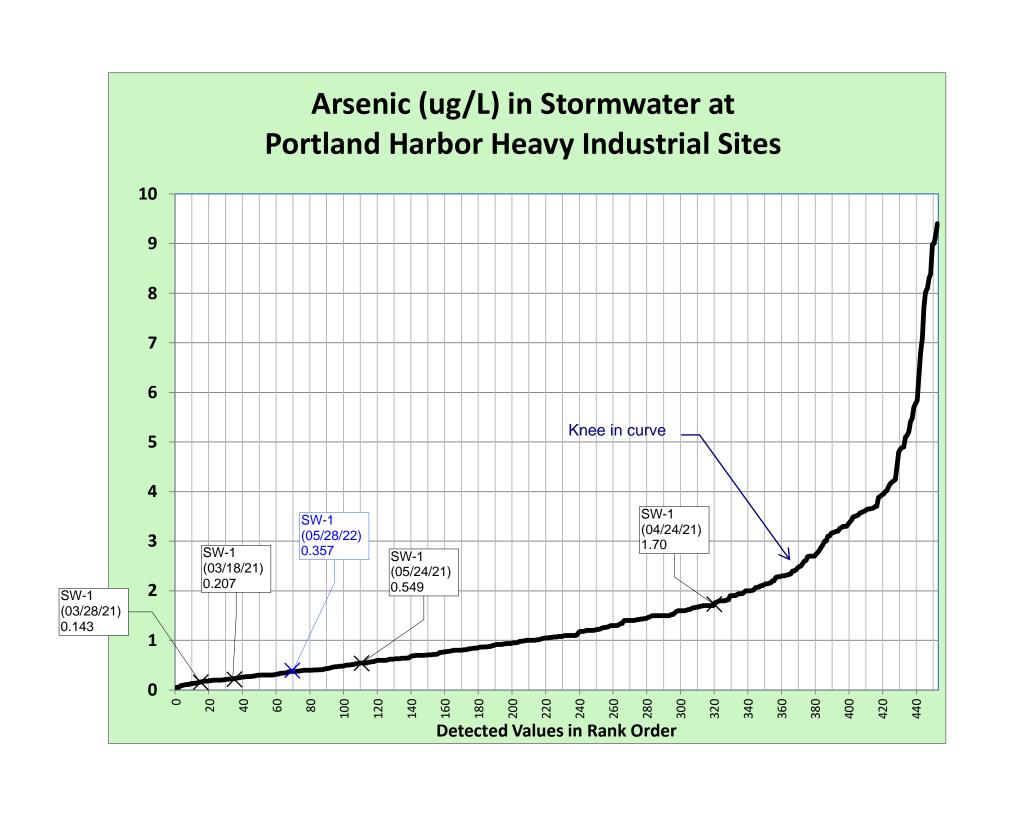


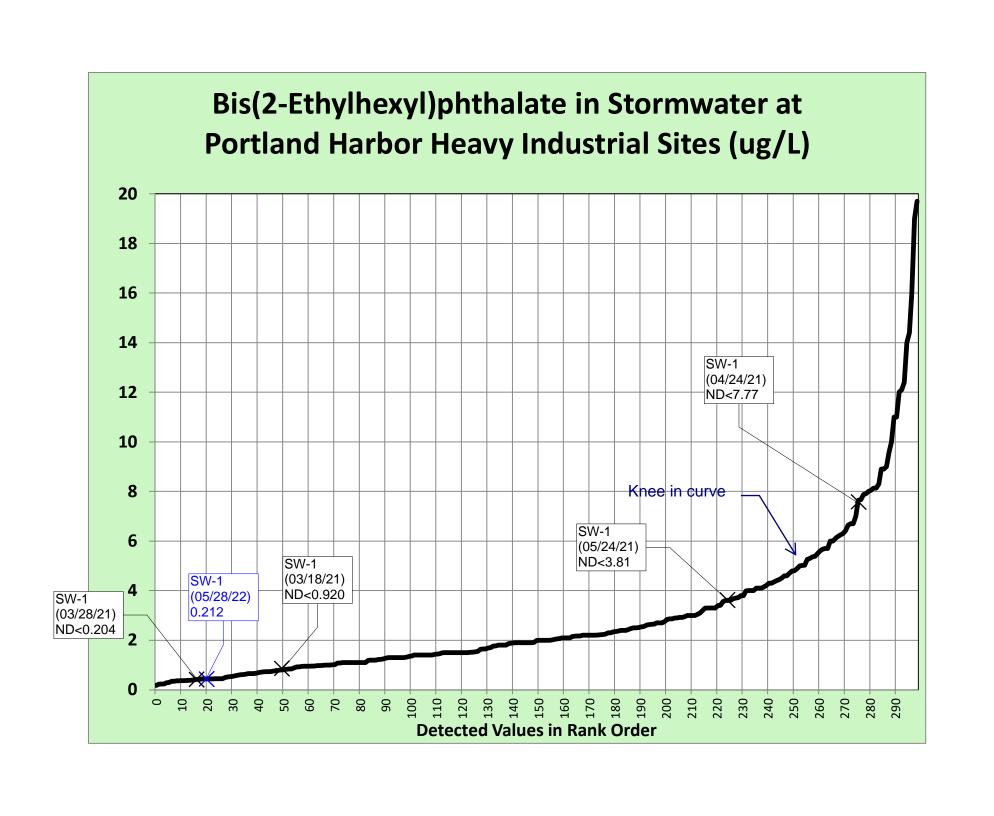


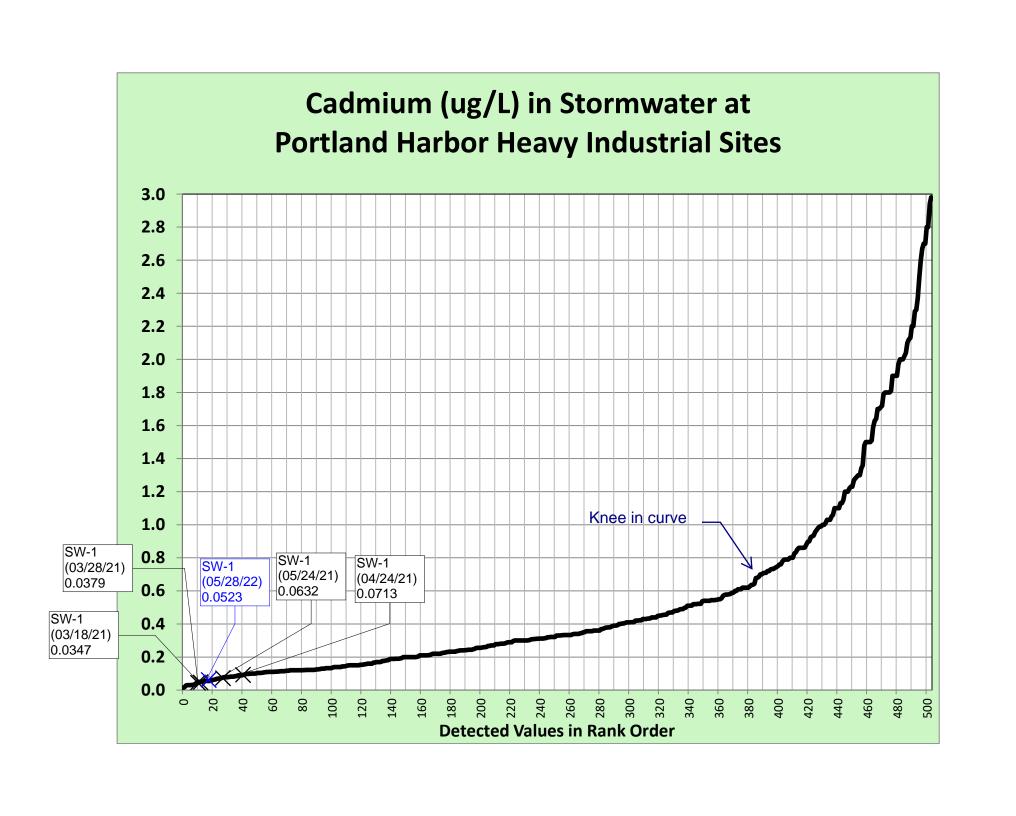


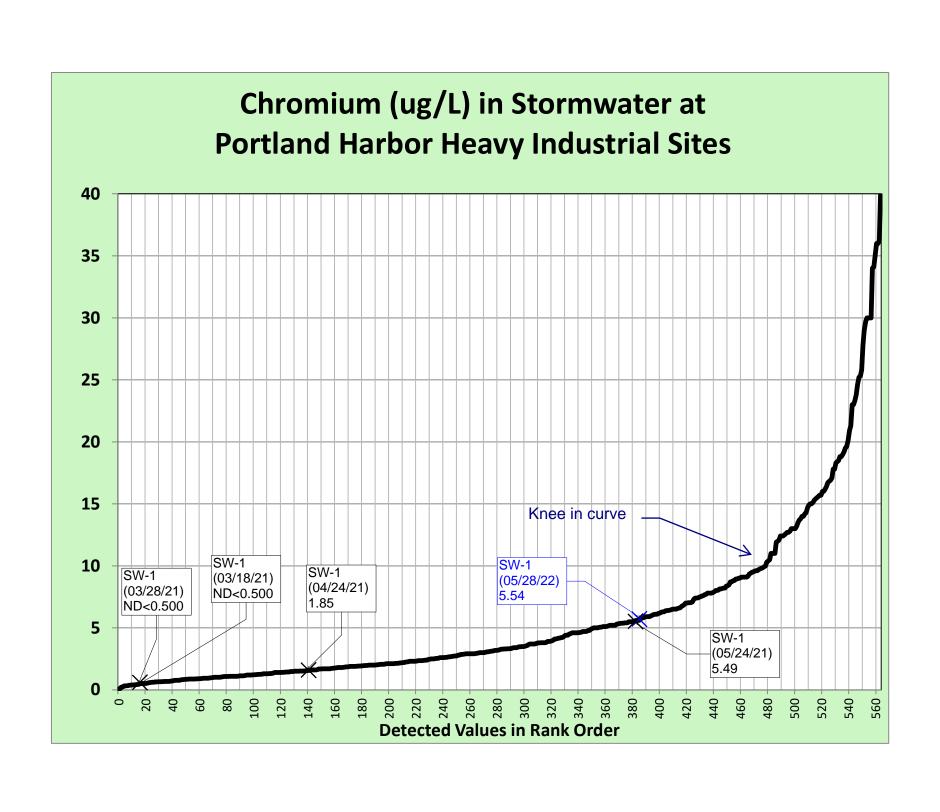


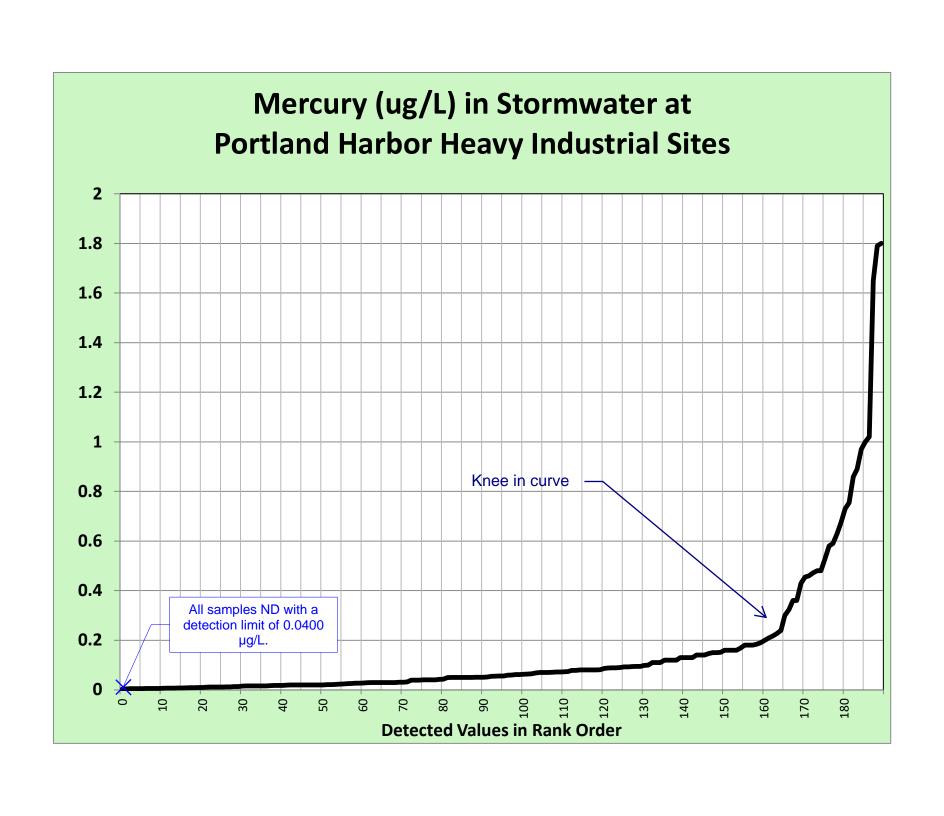


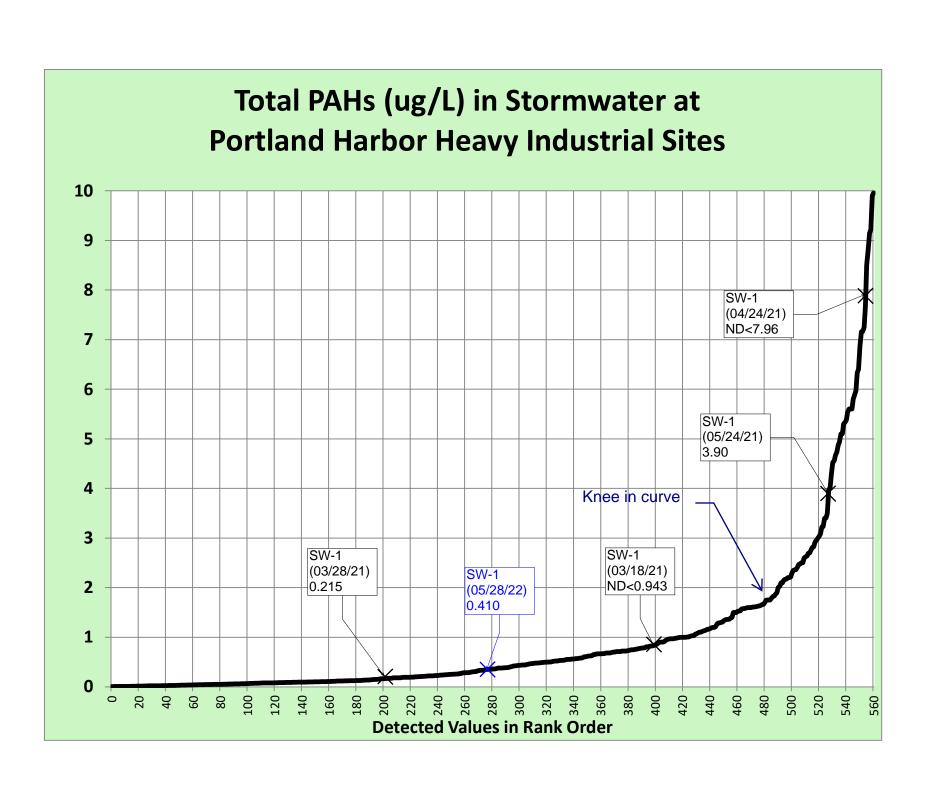


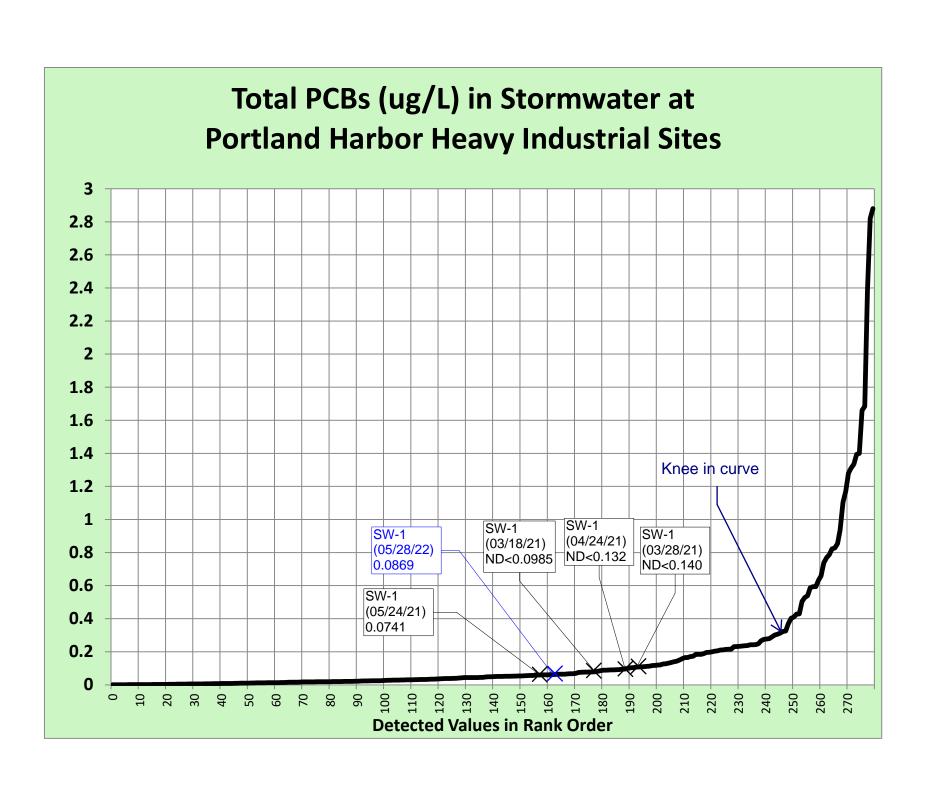


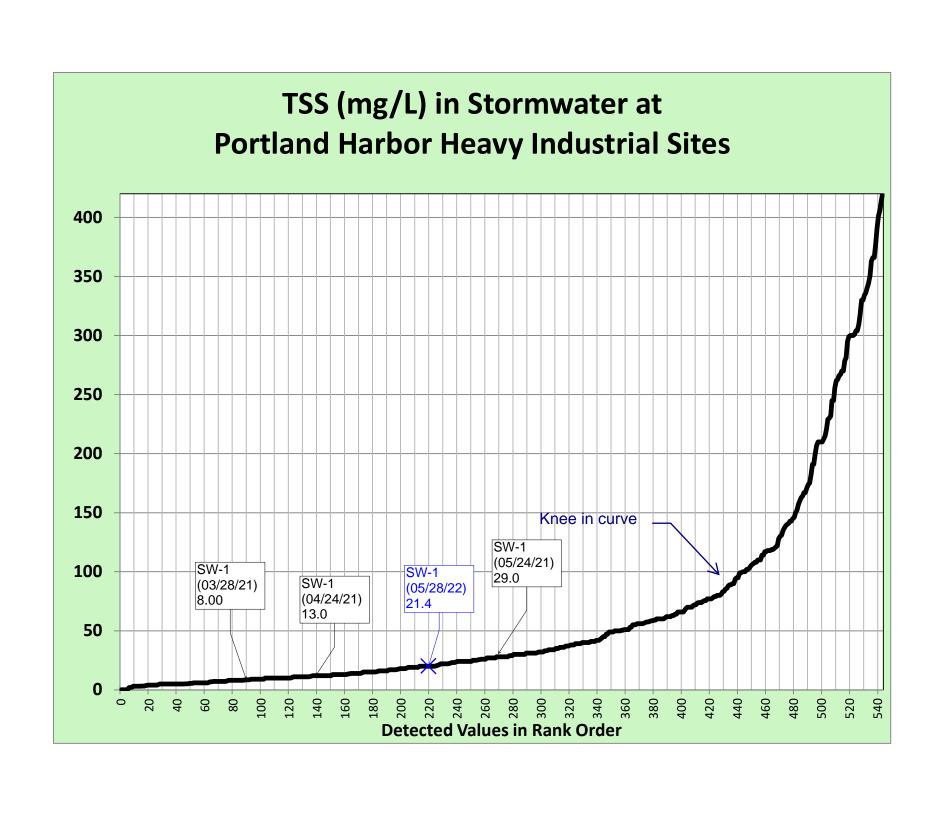


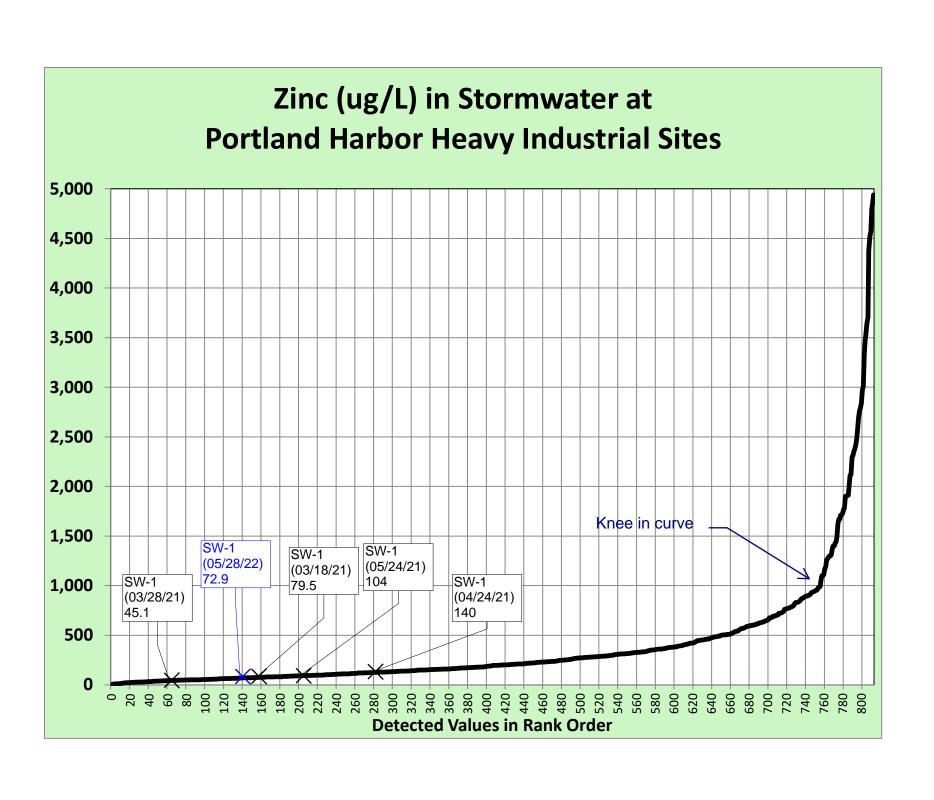


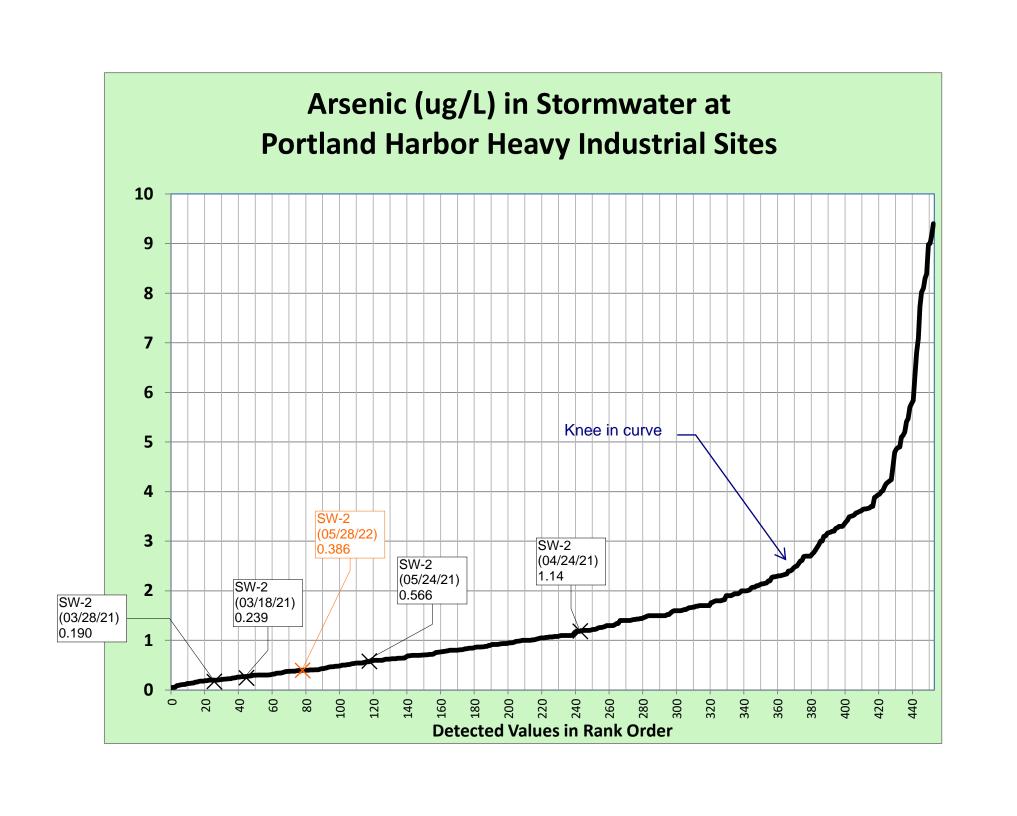


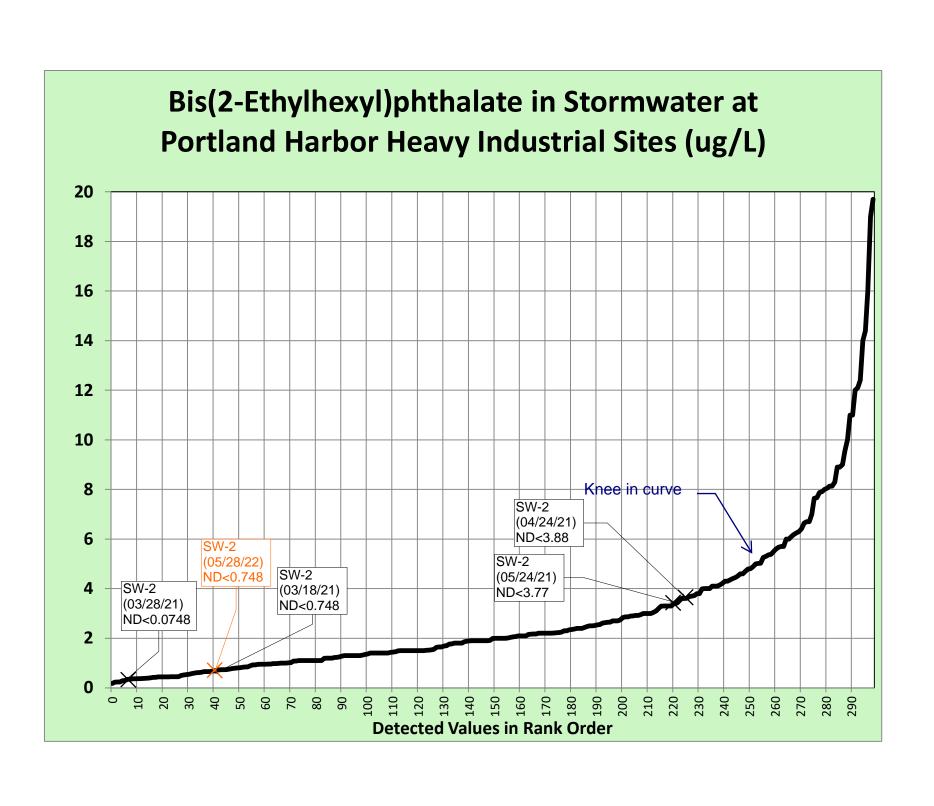


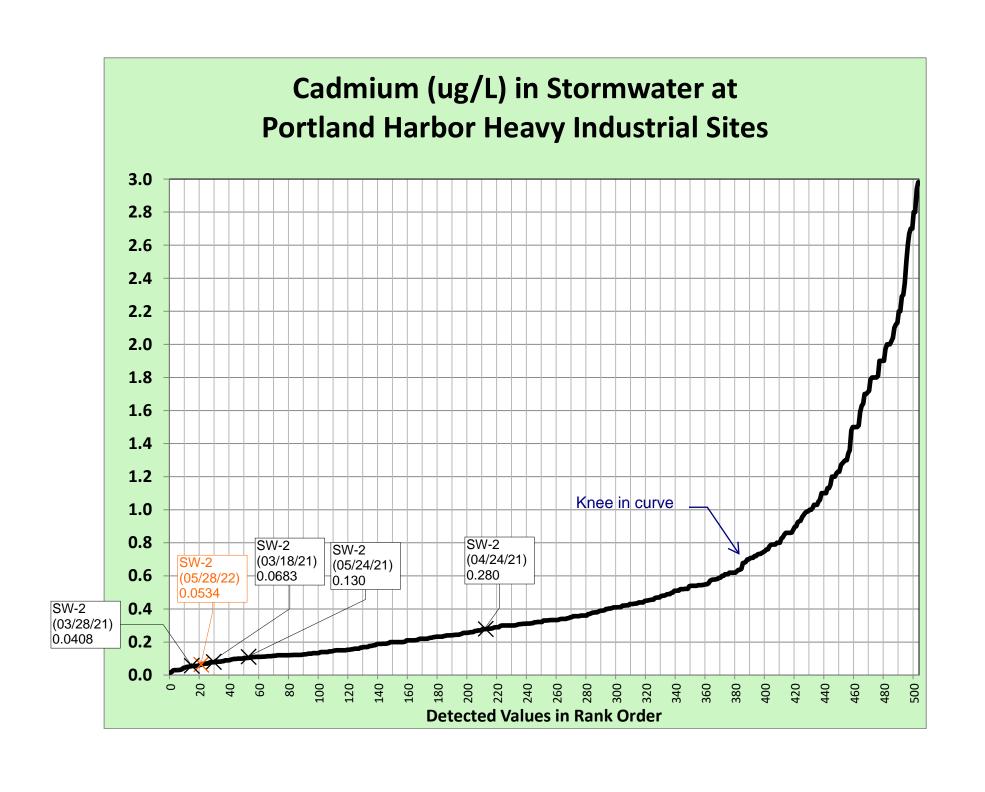


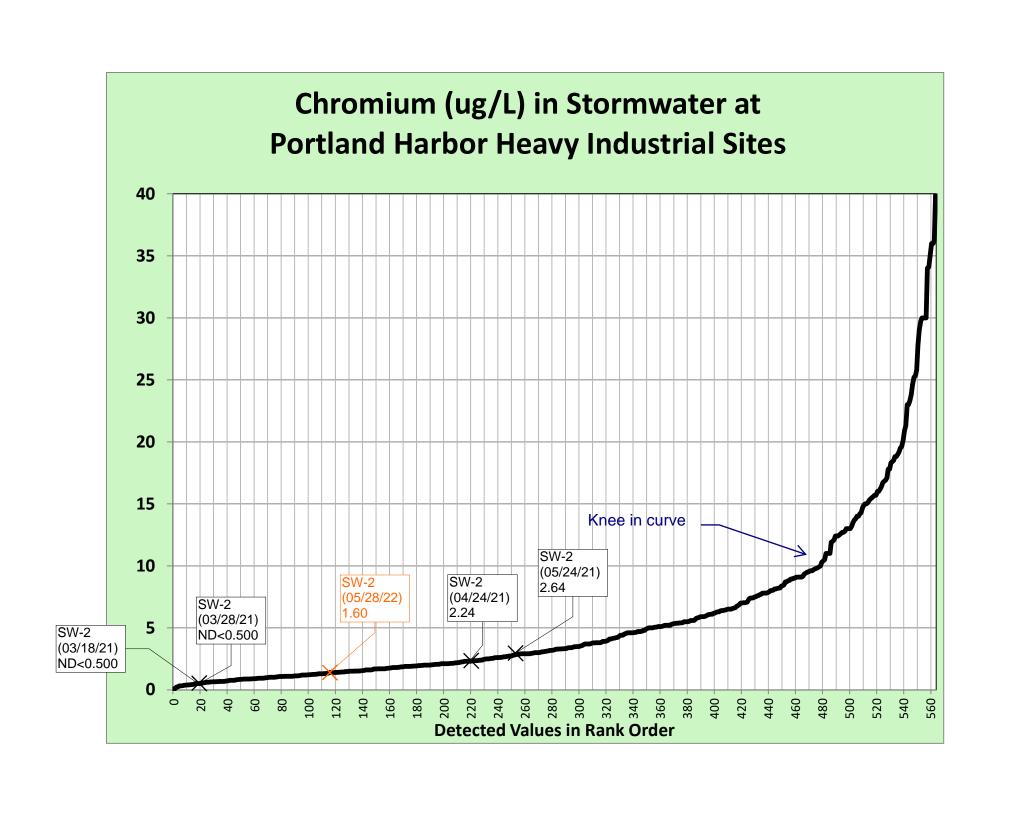


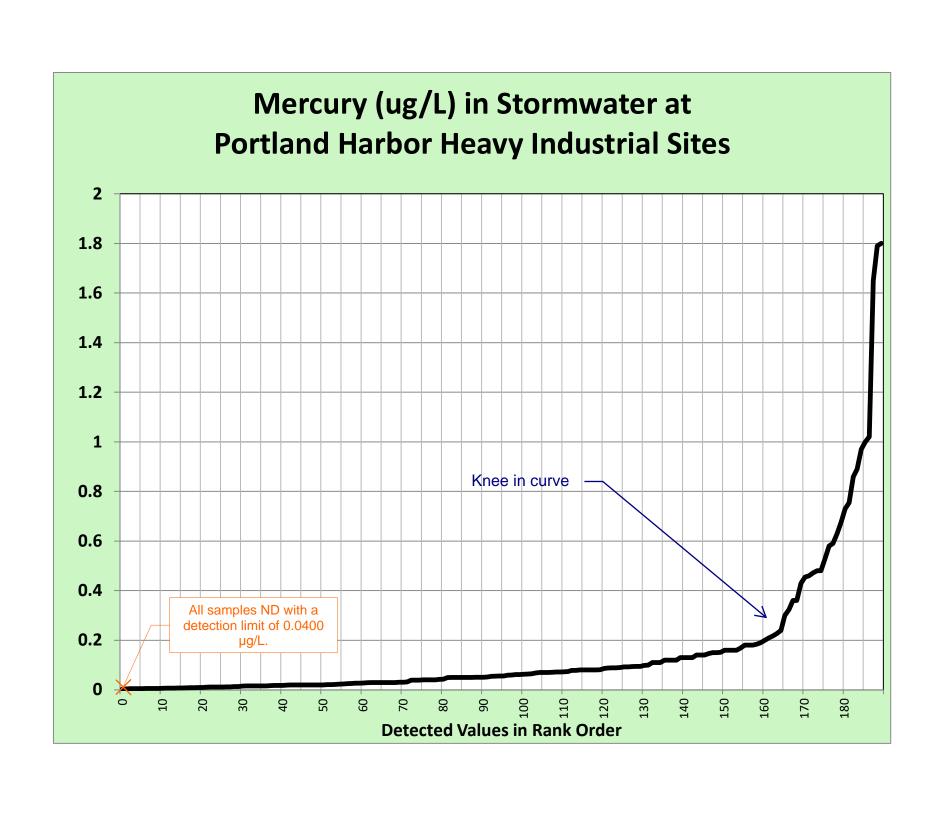


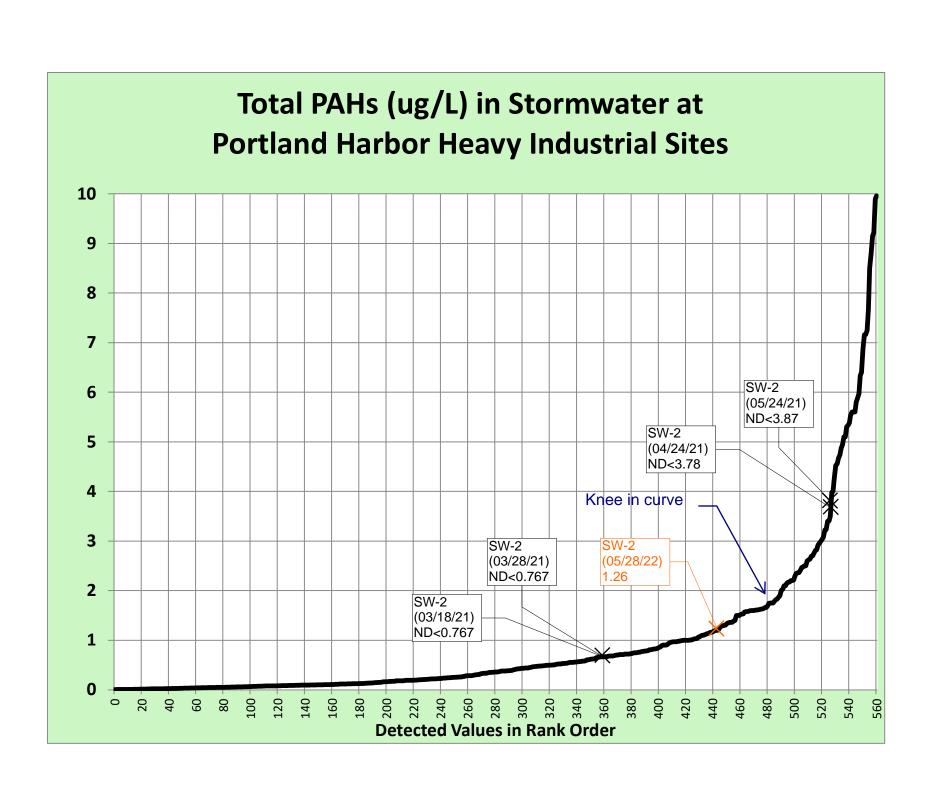


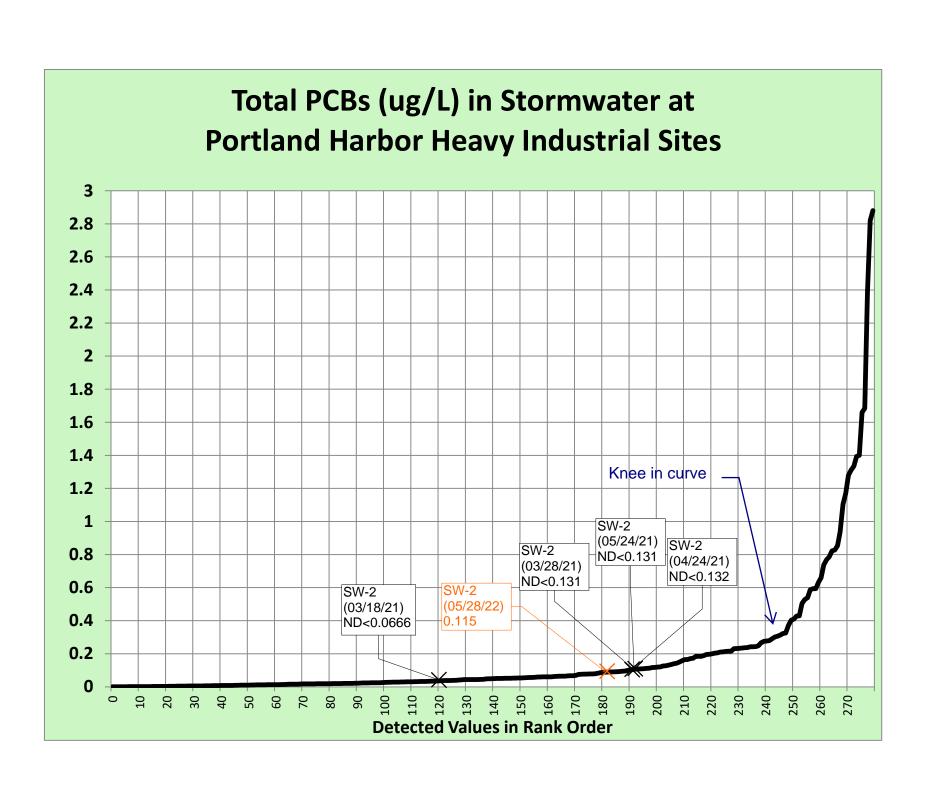


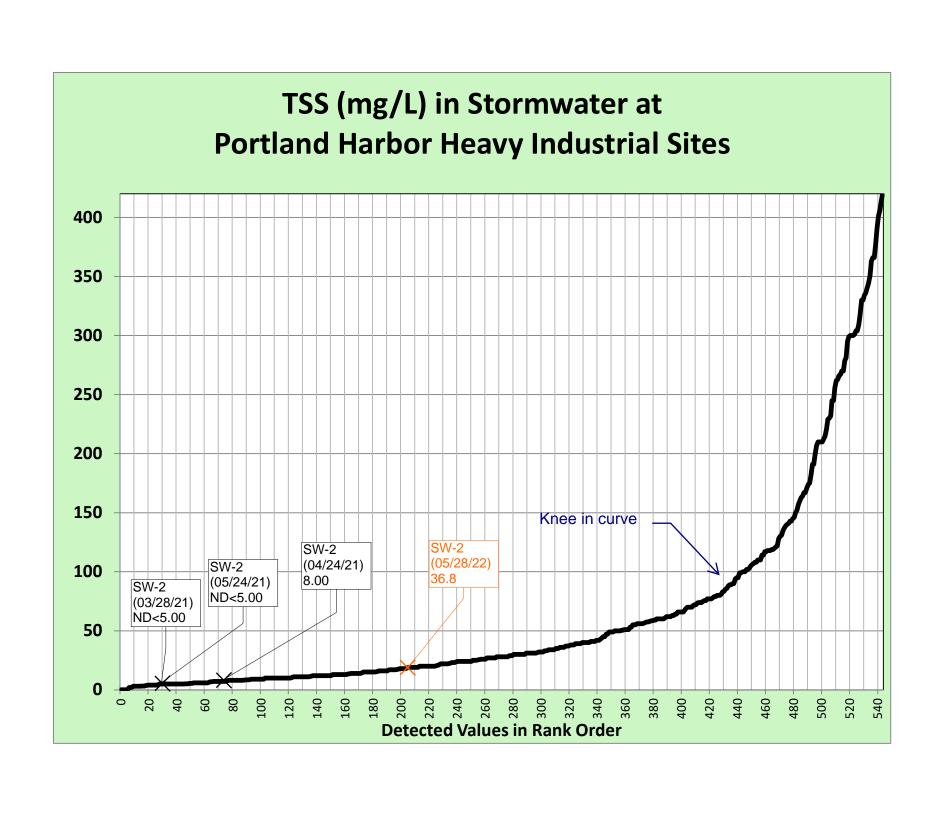


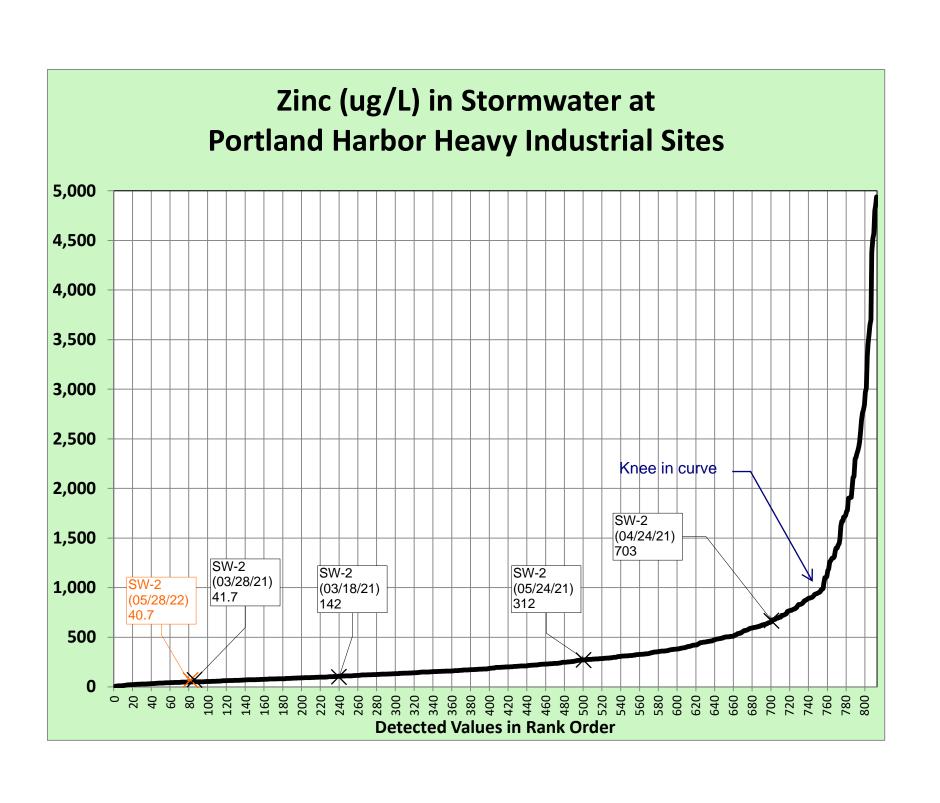












APPENDIX F

APPENDIX F

CHEMICAL ANALYTICAL PROGRAM

GENERAL

Chain-of-custody procedures were followed during handling and transport of the samples to the analytical laboratory. The laboratory holds the samples in cold storage pending extraction and/or analysis. The analytical results, analytical methods reference, and laboratory QC records are presented in this appendix. The analytical results also are summarized in the tables of this report.

REVIEW OF ANALYTICAL DATA

The analytical laboratories maintain an internal QA program consisting of a combination of the following:

Blanks: Blanks are laboratory-prepared samples that are free of contaminants. The blanks are carried through the analysis procedure along with the field samples to document that contaminants were not introduced to the samples during sample handling and analysis.

Surrogate Recoveries: Surrogates are organic compounds that are similar in nature to the analytes of concern but are not normally found in nature. The surrogates are added to QC and field samples prior to analysis. The percent recovery of the surrogate is calculated to demonstrate acceptable method performance.

Duplicates: Duplicates are obtained by splitting a sample into two parts. The two separate parts are carried through the analyses. The analytical results are then compared by calculating the RPD between the samples. Analytes with RPDs greater than 50 percent (except chromium) were non-detections and/or analytes qualified by the laboratory as estimates. The RPD for chromium is 61.6 percent. This is slightly greater than the 50 percent threshold for representativeness. However, the RPD for all detected analytes was generally below 50 percent. In our opinion, the samples are considered adequately representative of the environmental conditions at the subject property and confirm the laboratory precision.

MS/MSD Recoveries: An MS sample is a sample that has been split into a second portion. The MSD is obtained by further splitting the MS sample. A known concentration of the analyte of interest is added to the MS and MSD samples. The analytical results for both samples are then compared for RPD and percent recovery to demonstrate acceptable method performance.

BS/BSD Recoveries: BS and BSD samples are obtained and analyzed in the same procedure as the MS/MSD samples; however, the laboratory blank sample is used to obtain the BS/BSD samples. The percent recovery and RPD of the known concentration of analyte of interest added to the BS/BSD sample is calculated after chemical analyses to demonstrate acceptable method performance.



Detection Limits: The detection limits that exceed regulatory screening levels do not appear to hinder our ability to adequately characterize sediment at the subject property. Laboratory detection limits that exceed regulatory screening levels are summarized in the table below.

Sediment Laboratory Detection Limit Exceedances

Analyte	Sample Name	Detection Limit	Screening Levels	Explanation for Non-Significance
Diesel-range hydrocarbons	CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6	96.1 – 495 mg/kg	91 mg/kg (EPA CUL)	Not detected in any sediment samples.
Tributyltin	CB-3	2.5 µg/kg	2.3 μg/kg (JSCS SLV)	Only detected in one sediment sample. Detection limit similar to screening level.
Acenaphthene	CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	344 - 867 µg/kg	200 μg/kg (JSCS SLV)	
Acenaphthylene	CB-1, CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	344 - 937 µg/kg	200 μg/kg (JSCS SLV)	
Anthracene	CB-3	867 μg/kg	845 µg/kg (JSCS SLV)	
Benzo(g,h,i)perylene	CB-6, CB-7	344 and 353 μg/kg	300 µg/kg (JSCS SLV)	Lowest possible detection limits.
Fluorene	CB-1, CB-2, CB-3	828 - 937 µg/kg	536 µg/kg (JSCS SLV)	Similar to screening level.
Indeno(1,2,3- cd)pyrene	CB-6, CB-7	344 and 353 μg/kg	100 µg/kg (JSCS SLV)	
2- Methylnaphthalene	CB-1, CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	691 - 1,880 µg/kg	200 μg/kg (JSCS SLV)	
Naphthalene (PAH)	CB-1, CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	691 - 1,880 µg/kg	561 µg/kg (JSCS SLV)	

Sediment Laboratory Detection Limit Exceedances (continued)

Analyte	Sample Name	Detection Limit	Screening Levels	Explanation for Non-Significance	
ВЕНР	CB-1, CB-2, CB-3	12,400 - 14,100 µg/kg	135 µg/kg (EPA CUL) 330 µg/kg (JSCS SLV)	Detection limit less than "typical" stormwater at industrial sites.	
Di-n-butylphthalate	CB-1, CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	3,440 - 9,370 µg/kg	60 µg/kg (JSCS SLV)	Lowest possible detection limits. Not detected in any sediment samples.	
2,3,7,8-TCDD	CB-1, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	3.80 - 12.8 pg/g	0.2 pg/g (EPA CUL) 0.0091 pg/g (JSCS SLV)		
1,2,3,7,8-PeCDD	CB-6, CB-7	7.74 and 12.5 pg/g	0.2 pg/g (EPA CUL) 2.6 pg/g (JSCS SLV)		
2,3,7,8-TCDF	CB-1, CB-2, CB-6, CB-7	4.04 - 11.4 pg/g	0.40658 pg/g (EPA CUL) 0.77 pg/g (JSCS SLV)	Lowest possible detection limits.	
1,2,3,7,8-PeCDF	CB-1, CB-6, CB-7	5.42 - 7.69 pg/g	2.6 pg/g (JSCS SLV)	Dioxins/furans were detected and	
2,3,4,7,8-PeCDF	CB-1, CB-6, CB-7	Limit 12,400 - 14,100 µg/kg 1, CB-2, 3, CB-4, 9,370 µg/kg 1, CB-3, CB-4-DUP, 5, CB-6, CB-7 1, CB-3, CB-7 1, CB-3, CB-4-DUP, 5, CB-6, CB-7 1, CB-3, CB-7 1, CB-3, CB-4-DUP, 5, CB-6, CB-7 1, CB-3, CB-7 1, CB-6, CB-7 1, CB-1, 5, CB-1 1, CB-2, 6, CB-7 1, CB-6, CB-7 2, CB-6, CB-7 3, 49 - 9.38 ng/g 3, 49 - 9.38 ng/g	0.3 pg/g (EPA CUL) 0.03 pg/g (JSCS SLV)	are considered a primary COPC.	
1,2,3,6,7,8-HxCDF	CB-1, CB-6, CB-7		2.7 pg/g (JSCS SLV)		
2,3,4,6,7,8-HxCDF	CB-6, CB-7		2.7 pg/g (JSCS SLV)		
1,2,3,7,8,9-HxCDF	CB-1, CB-2, CB-3, CB-6, CB-7		2.7 pg/g (JSCS SLV)		

Sediment Laboratory Detection Limit Exceedances (continued)

Analyte	Sample Name	Detection Limit	Screening Levels	Explanation for Non-Significance
4,4'-DDD	CB-1, CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	0.00433 - 0.0479 mg/kg	0.114 mg/kg (EPA CUL) 0.00033 mg/kg (JSCS SLV)	
4,4'-DDE	CB-1, CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	0.00433 - 0.0196 mg/kg	0.226 mg/kg (EPA CUL) 0.00033 mg/kg (JSCS SLV)	Lowest possible detection limits. Not detected in any sediment samples.
4,4'-DDT	CB-1, CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	0.00784 - 0.0500 mg/kg	0.246 mg/kg (EPA CUL) 0.00033 mg/kg (JSCS SLV)	Samples.
Aldrin	CB-1, CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	0.00433 – 0.0165 mg/kg	0.002 mg/kg (EPA CUL) 0.04 mg/kg (JSCS SLV)	
Chlordane	CB-1, CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	0.130 – 0.496 mg/kg	0.00037 mg/kg (JSCS SLV)	
Dieldrin	CB-1, CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	0.00433 - 0.0196 mg/kg	0.00007 mg/kg (EPA CUL) 0.0000081 (JSCS SLV)	Lowest possible detection limits. Not detected in any sediment
Gamma-HCH	CB-1, CB-2, CB-3, CB-4, CB-4-DUP, CB-5, CB-6, CB-7	0.00433 – 0.0165 mg/kg	0.005 mg/kg (EPA CUL) 0.00499 mg/kg (JSCS SLV)	samples.
Heptachlor	CB-1	0.0165 mg/kg	0.010 mg/kg (JSCS SLV)	
Heptachlor Epoxide	CB-1, CB-5	0.0165 and 0.0196 mg/kg	0.016 mg/kg (JSCS SLV)	

Stormwater Laboratory Detection Limit Exceedances

Analyte	Sample Name	Detection Limit (µg/L)	Screening Levels (µg/L)	Explanation for Non-Significance
Total PCBs	All	0.06664 - 0.1400	0.0000064 (EPA CUL)	Generally not detected in any samples, lowest possible detection limit.
Select VOCs	All	0.0500 - 5.00	0.0095 - 0.92 (JSCS SLVs)	Generally not detected in any samples, lowest possible detection limit.
Phthalate Esters	SW-1(042421), SW-1(052421) SW-2(042421), SW-2(052421)	3.77 - 7.77	2.2 - 3 (JSCS SLVs)	Not detected in any samples, lowest possible detection limit.
Select PAHs	0.00		0.00012 - 0.0013 (EPA CUL) 0.018 - 0.2 (JSCS SLV)	Generally not detected in any samples, lowest possible detection limit.
2,3,7,8-TCDD	All	9.61E-07 - 2.74E-06	5.1E-09 (JSCS SLV)	Not detected in any samples, lowest possible detection limit.

SUMMARY OF ANALYTICAL DATA REVIEW

NV5 reviewed the attached analytical data reports for data quality exceptions and deviations from acceptable method performance criteria. Based on our review of the analytical reports, the analytical data appear acceptable for their intended use.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Monday, January 11, 2021 Kyle Haggart GeoDesign, Inc. 9450 SW Commerce Circle Wilsonville, OR 97070

RE: A0L0698 - Former Automatic Vending Co. - BCSAmerica-1-02

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A0L0698, which was received by the laboratory on 12/17/2020 at 3:30:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler#1 2.7 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.





Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 1 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	ORMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB-1	A0L0698-01	Solid	12/17/20 10:10	12/17/20 15:30
CB-2	A0L0698-02	Solid	12/17/20 08:50	12/17/20 15:30
CB-3	A0L0698-03	Solid	12/17/20 09:15	12/17/20 15:30
CB-4	A0L0698-04	Solid	12/17/20 11:00	12/17/20 15:30
CB-4_DUP	A0L0698-05	Solid	12/17/20 11:05	12/17/20 15:30
CB-5	A0L0698-06	Solid	12/17/20 11:35	12/17/20 15:30
CB-6	A0L0698-07	Solid	12/17/20 13:10	12/17/20 15:30
CB-7	A0L0698-08	Solid	12/17/20 12:30	12/17/20 15:30
TB(121720)	A0L0698-09	Water	12/17/20 13:30	12/17/20 15:30

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Die	sei and/or O	ıı nyarocar	bons by NWTP	ru-DX			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-1 (A0L0698-01RE2)			<u> </u>	Matrix: Soli	id	Batch:	0120816	
Diesel	ND	49.9	99.7	mg/kg	5	12/23/20 12:50	NWTPH-Dx	
Oil	1960	99.7	199	mg/kg	5	12/23/20 12:50	NWTPH-Dx	F-03
Surrogate: o-Terphenyl (Surr)		Reco	very: 89 %	Limits: 50-150 9	% 5	12/23/20 12:50	NWTPH-Dx	S-05
CB-2 (A0L0698-02RE1)		Matrix: Solid Batch: 0120816						
Diesel	ND	97.8	196	mg/kg	10	12/23/20 20:48	NWTPH-Dx	
Oil	3120	196	391	mg/kg	10	12/23/20 20:48	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 90 %	Limits: 50-150 9	% 10	12/23/20 20:48	NWTPH-Dx	S-05
CB-3 (A0L0698-03RE1)			Matrix: Solid Batch: 0120816					
Diesel	ND	96.1	192	mg/kg	10	12/23/20 21:08	NWTPH-Dx	
Oil	3200	192	384	mg/kg	10	12/23/20 21:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 81 %	Limits: 50-150 9	% 10	12/23/20 21:08	NWTPH-Dx	S-05
CB-4 (A0L0698-04RE1)			Matrix: Solid Batch: 0120816					
Diesel	ND	96.2	192	mg/kg	10	12/23/20 21:49	NWTPH-Dx	
Oil	3170	192	385	mg/kg	10	12/23/20 21:49	NWTPH-Dx	F-03
Surrogate: o-Terphenyl (Surr)		Reco	very: 59 %	Limits: 50-150 9	% 10	12/23/20 21:49	NWTPH-Dx	S-05
CB-4_DUP (A0L0698-05RE1)				Matrix: Soli	id	Batch: 0120816		
Diesel	ND	495	990	mg/kg	50	12/23/20 22:09	NWTPH-Dx	
Oil	4780	990	1980	mg/kg	50	12/23/20 22:09	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Re	covery: %	Limits: 50-150 9	% 50	12/23/20 22:09	NWTPH-Dx	S-01
CB-5 (A0L0698-06RE1)				Matrix: Soli	id	Batch:	0120816	
Diesel	ND	97.6	195	mg/kg	10	12/23/20 22:49	NWTPH-Dx	
Oil	3450	195	390	mg/kg	10	12/23/20 22:49	NWTPH-Dx	F-03
Surrogate: o-Terphenyl (Surr)		Reco	very: 79 %	Limits: 50-150 9	% 10	12/23/20 22:49	NWTPH-Dx	S-05
CB-6 (A0L0698-07RE1)				Matrix: Soli	Matrix: Solid		Batch: 0120816	
Diesel	ND	97.3	195	mg/kg	10	12/23/20 13:30	NWTPH-Dx	
Oil	2480	195	389	mg/kg	10	12/23/20 13:30	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 70 %	Limits: 50-150 9	% 10	12/23/20 13:30	NWTPH-Dx	S-05

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Diesel and/or Oil Hydrocarbons by NWTPH-Dx										
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes			
CB-7 (A0L0698-08RE1)				Matrix: Solid Batch: 0120816			0120816				
Diesel	ND	49.6	99.2	mg/kg	5	12/23/20 23:09	NWTPH-Dx				
Oil	2590	99.2	198	mg/kg	5	12/23/20 23:09	NWTPH-Dx	F-03			
Surrogate: o-Terphenyl (Surr)		Reco	very: 79 %	Limits: 50-150 %	5	12/23/20 23:09	NWTPH-Dx	S-05			

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons	(Benzene th	nrough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-1 (A0L0698-01)				Matrix: Solid		Batch: 0120869		
Gasoline Range Organics	33.2	14.4	28.7	mg/kg dry	50	12/23/20 18:31	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recove	ry: 103 % 93 %	Limits: 50-150 % 50-150 %		12/23/20 18:31 12/23/20 18:31	NWTPH-Gx (MS) NWTPH-Gx (MS)	
CB-2 (A0L0698-02RE1)				Matrix: Solid	t	Batch	: 0120899	
Gasoline Range Organics	10.1	7.06	14.1	mg/kg dry	50	12/28/20 13:27	NWTPH-Gx (MS)	J
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recov	very: 99 % 89 %	Limits: 50-150 % 50-150 %		12/28/20 13:27 12/28/20 13:27	NWTPH-Gx (MS) NWTPH-Gx (MS)	
CB-3 (A0L0698-03)				Matrix: Solid	t	Batch	: 0120869	
Gasoline Range Organics	ND	5.60	11.2	mg/kg dry	50	12/23/20 19:26	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recov	pery: 99 % 92 %	Limits: 50-150 % 50-150 %		12/23/20 19:26 12/23/20 19:26	NWTPH-Gx (MS) NWTPH-Gx (MS)	
CB-4 (A0L0698-04)				Matrix: Solid	Matrix: Solid		Batch: 0120869	
Gasoline Range Organics	ND	14.2	28.3	mg/kg dry	50	12/23/20 19:53	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recove	ry: 100 % 93 %	Limits: 50-150 % 50-150 %		12/23/20 19:53 12/23/20 19:53	NWTPH-Gx (MS) NWTPH-Gx (MS)	
 CB-4_DUP (A0L0698-05)				Matrix: Solid	d Batch: 0120869			
Gasoline Range Organics	ND	13.3	26.6	mg/kg dry	50	12/23/20 20:20	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recove	ry: 100 % 94 %	Limits: 50-150 % 50-150 %		12/23/20 20:20 12/23/20 20:20	NWTPH-Gx (MS) NWTPH-Gx (MS)	
CB-5 (A0L0698-06)				Matrix: Solid	d	Batch	: 0120837	
Gasoline Range Organics	ND	11.6	23.1	mg/kg dry	50	12/23/20 10:54	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recov	very: 92 % 88 %	Limits: 50-150 % 50-150 %		12/23/20 10:54 12/23/20 10:54	NWTPH-Gx (MS) NWTPH-Gx (MS)	
CB-6 (A0L0698-07)		Matrix: Solid		Batch: 0120837				
Gasoline Range Organics	31.1	14.3	28.6	mg/kg dry	50	12/23/20 11:22	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recov	very: 99 % 88 %	Limits: 50-150 % 50-150 %		12/23/20 11:22 12/23/20 11:22	NWTPH-Gx (MS) NWTPH-Gx (MS)	
CB-7 (A0L0698-08)				Matrix: Solid	d l	Batch	: 0120837	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 5 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx									
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
CB-7 (A0L0698-08)				Matrix: Solid Batch: 0120837					
Gasoline Range Organics	ND	8.39	16.8	mg/kg dry	50	12/23/20 02:45	NWTPH-Gx (MS)		
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recove	ery: 103 % 96 %	Limits: 50-150 % 50-150 %		12/23/20 02:45 12/23/20 02:45	NWTPH-Gx (MS) NWTPH-Gx (MS)		

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





ORELAP ID: OR100062

<u>GeoDesign, Inc.</u> 9450 SW Commerce Circle Wilsonville, OR 97070 Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

		olatile Organ	ic Compound	us by EPA 82	עטט			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-1 (A0L0698-01)				Matrix: Soli	id	Batch:	0120869	
Acetone	ND	2.87	5.74	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Acrylonitrile	ND	0.287	0.574	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Benzene	ND	0.0287	0.0574	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Bromobenzene	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Bromochloromethane	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Bromodichloromethane	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Bromoform	ND	0.287	0.574	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Bromomethane	ND	2.87	2.87	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
2-Butanone (MEK)	ND	1.44	2.87	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
n-Butylbenzene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
sec-Butylbenzene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
tert-Butylbenzene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Carbon disulfide	ND	1.44	2.87	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Carbon tetrachloride	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Chlorobenzene	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Chloroethane	ND	2.87	2.87	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Chloroform	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Chloromethane	ND	0.718	1.44	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
2-Chlorotoluene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
4-Chlorotoluene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Dibromochloromethane	ND	0.287	0.574	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	0.718	1.44	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Dibromomethane	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,2-Dichlorobenzene	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,3-Dichlorobenzene	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,4-Dichlorobenzene	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Dichlorodifluoromethane	ND	0.287	0.574	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,1-Dichloroethane	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,1-Dichloroethene	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
cis-1,2-Dichloroethene	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
trans-1,2-Dichloroethene	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	v	olatile Organ	ic Compound	ds by EPA 82	60D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-1 (A0L0698-01)				Matrix: Sol	id	Batch:	0120869	
1,2-Dichloropropane	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,3-Dichloropropane	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
2,2-Dichloropropane	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,1-Dichloropropene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
cis-1,3-Dichloropropene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
trans-1,3-Dichloropropene	ND	0.287	0.574	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Ethylbenzene	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Hexachlorobutadiene	ND	0.287	0.574	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
2-Hexanone	ND	1.44	2.87	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Isopropylbenzene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
4-Isopropyltoluene	0.448	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Methylene chloride	ND	1.44	2.87	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	1.44	2.87	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Naphthalene	0.336	0.287	0.574	mg/kg dry	50	12/23/20 18:31	5035A/8260D	J
n-Propylbenzene	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Styrene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Tetrachloroethene (PCE)	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Toluene	0.207	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	J
1,2,3-Trichlorobenzene	ND	0.718	1.44	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,2,4-Trichlorobenzene	ND	0.718	1.44	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,1,1-Trichloroethane	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,1,2-Trichloroethane	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Trichloroethene (TCE)	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Trichlorofluoromethane	ND	0.287	0.574	mg/kg dry	50	12/23/20 18:31	5035A/8260D	Q-30
1,2,3-Trichloropropane	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,2,4-Trimethylbenzene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
1,3,5-Trimethylbenzene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
Vinyl chloride	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
m,p-Xylene	ND	0.144	0.287	mg/kg dry	50	12/23/20 18:31	5035A/8260D	
o-Xylene	ND	0.0718	0.144	mg/kg dry	50	12/23/20 18:31	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





ORELAP ID: OR100062

GeoDesign, Inc. 9450 SW Commerce Circle Wilsonville, OR 97070 Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	V	olatile Organ	ic Compou	nds by EPA 826	0D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-1 (A0L0698-01)				Matrix: Solid		Batch:	0120869	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 108 %	Limits: 80-120 %	1	12/23/20 18:31	5035A/8260D	
Toluene-d8 (Surr)			100 %	80-120 %	1	12/23/20 18:31	5035A/8260D	
4-Bromofluorobenzene (Surr)			106 %	79-120 %	1	12/23/20 18:31	5035A/8260D	
CB-2 (A0L0698-02RE1)				Matrix: Solid		Batch:	0120899	
Acetone	ND	1.41	2.82	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Acrylonitrile	ND	0.141	0.282	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Benzene	ND	0.0141	0.0282	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Bromobenzene	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Bromochloromethane	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Bromodichloromethane	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Bromoform	ND	0.141	0.282	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Bromomethane	ND	1.41	1.41	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
2-Butanone (MEK)	ND	0.706	1.41	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
n-Butylbenzene	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
sec-Butylbenzene	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
tert-Butylbenzene	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Carbon disulfide	ND	0.706	1.41	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Carbon tetrachloride	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Chlorobenzene	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Chloroethane	ND	1.41	1.41	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Chloroform	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Chloromethane	ND	0.706	0.706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
2-Chlorotoluene	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
4-Chlorotoluene	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Dibromochloromethane	ND	0.141	0.282	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	0.353	0.706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Dibromomethane	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,2-Dichlorobenzene	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,3-Dichlorobenzene	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,4-Dichlorobenzene	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Dichlorodifluoromethane	ND	0.141	0.282	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,1-Dichloroethane	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





ORELAP ID: OR100062

GeoDesign, Inc.
9450 SW Commerce Circle

Wilsonville, OR 97070

Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	V	olatile Organ	ic Compoun	ds by EPA 82	60D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-2 (A0L0698-02RE1)				Matrix: Sol	id	Batch:	0120899	
1,2-Dichloroethane (EDC)	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,1-Dichloroethene	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
cis-1,2-Dichloroethene	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
trans-1,2-Dichloroethene	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,2-Dichloropropane	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,3-Dichloropropane	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
2,2-Dichloropropane	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,1-Dichloropropene	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
cis-1,3-Dichloropropene	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
trans-1,3-Dichloropropene	ND	0.141	0.282	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Ethylbenzene	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Hexachlorobutadiene	ND	0.141	0.282	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
2-Hexanone	ND	1.41	1.41	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Isopropylbenzene	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
4-Isopropyltoluene	0.0763	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	J
Methylene chloride	ND	0.706	1.41	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	0.706	1.41	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Naphthalene	0.154	0.141	0.282	mg/kg dry	50	12/28/20 13:27	5035A/8260D	J
n-Propylbenzene	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Styrene	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Tetrachloroethene (PCE)	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Toluene	0.110	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	J
1,2,3-Trichlorobenzene	ND	0.353	0.706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,2,4-Trichlorobenzene	ND	0.353	0.706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,1,1-Trichloroethane	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,1,2-Trichloroethane	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Trichloroethene (TCE)	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
Trichlorofluoromethane	ND	0.282	0.282	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,2,3-Trichloropropane	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
1,2,4-Trimethylbenzene	0.160	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
CB-2 (A0L0698-02RE1)				Matrix: Solid	d	Batch:	0120899	
1,3,5-Trimethylbenzene	0.0861	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	J
Vinyl chloride	ND	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
m,p-Xylene	ND	0.0706	0.141	mg/kg dry	50	12/28/20 13:27	5035A/8260D	
o-Xylene	0.0353	0.0353	0.0706	mg/kg dry	50	12/28/20 13:27	5035A/8260D	J
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery.	: 104 %	Limits: 80-120 %	5 1	12/28/20 13:27	5035A/8260D	
Toluene-d8 (Surr)			98 %	80-120 %		12/28/20 13:27	5035A/8260D	
4-Bromofluorobenzene (Surr)			105 %	79-120 %	5 1	12/28/20 13:27	5035A/8260D	
CB-3 (A0L0698-03)				Matrix: Solid	d	Batch:	0120869	
Acetone	ND	1.12	2.24	mg/kg dry	50	12/23/20 19:26	5035A/8260D	· ·
Acrylonitrile	ND	0.112	0.224	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Benzene	ND	0.0112	0.0224	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Bromobenzene	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Bromochloromethane	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Bromodichloromethane	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Bromoform	ND	0.112	0.224	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Bromomethane	ND	1.12	1.12	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
2-Butanone (MEK)	ND	0.560	1.12	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
n-Butylbenzene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
sec-Butylbenzene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
tert-Butylbenzene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Carbon disulfide	ND	0.560	1.12	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Carbon tetrachloride	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Chlorobenzene	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Chloroethane	ND	1.12	1.12	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Chloroform	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Chloromethane	ND	0.280	0.560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
2-Chlorotoluene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
4-Chlorotoluene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Dibromochloromethane	ND	0.112	0.224	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	0.280	0.560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Dibromomethane	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,2-Dichlorobenzene	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 11 of 118





ORELAP ID: OR100062

GeoDesign, Inc.
9450 SW Commerce Circle

Wilsonville, OR 97070

Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	v	olatile Organ	ic Compound	ds by EPA 82	60D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-3 (A0L0698-03)				Matrix: Soli	id	Batch: 0120869		
1,3-Dichlorobenzene	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	_
1,4-Dichlorobenzene	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Dichlorodifluoromethane	ND	0.112	0.224	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,1-Dichloroethane	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,1-Dichloroethene	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
cis-1,2-Dichloroethene	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
trans-1,2-Dichloroethene	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,2-Dichloropropane	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,3-Dichloropropane	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
2,2-Dichloropropane	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,1-Dichloropropene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
cis-1,3-Dichloropropene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
trans-1,3-Dichloropropene	ND	0.112	0.224	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Ethylbenzene	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Hexachlorobutadiene	ND	0.112	0.224	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
2-Hexanone	ND	0.560	1.12	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Isopropylbenzene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
4-Isopropyltoluene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Methylene chloride	ND	0.560	1.12	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	0.560	1.12	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Naphthalene	ND	0.112	0.224	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
n-Propylbenzene	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Styrene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Tetrachloroethene (PCE)	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Toluene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,2,3-Trichlorobenzene	ND	0.280	0.560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,2,4-Trichlorobenzene	ND	0.280	0.560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,1,1-Trichloroethane	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,1,2-Trichloroethane	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





ORELAP ID: OR100062

GeoDesign, Inc.

Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	V	olatile Organic	Compou	nds by EPA 826	0D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-3 (A0L0698-03)				Matrix: Solid	l .	Batch:	0120869	
Trichloroethene (TCE)	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Trichlorofluoromethane	ND	0.112	0.224	mg/kg dry	50	12/23/20 19:26	5035A/8260D	Q-30
1,2,3-Trichloropropane	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,2,4-Trimethylbenzene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
1,3,5-Trimethylbenzene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Vinyl chloride	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
m,p-Xylene	ND	0.0560	0.112	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
o-Xylene	ND	0.0280	0.0560	mg/kg dry	50	12/23/20 19:26	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 105 %	Limits: 80-120 %	1	12/23/20 19:26	5035A/8260D	
Toluene-d8 (Surr)			100 %	80-120 %		12/23/20 19:26	5035A/8260D	
4-Bromofluorobenzene (Surr)			105 %	79-120 %	1	12/23/20 19:26	5035A/8260D	
CB-4 (A0L0698-04)				Matrix: Solid	I	Batch:	0120869	
Acetone	ND	2.83	5.66	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Acrylonitrile	ND	0.283	0.566	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Benzene	ND	0.0283	0.0566	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Bromobenzene	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Bromochloromethane	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Bromodichloromethane	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Bromoform	ND	0.283	0.566	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Bromomethane	ND	2.83	2.83	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
2-Butanone (MEK)	ND	1.42	2.83	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
n-Butylbenzene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
sec-Butylbenzene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
tert-Butylbenzene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Carbon disulfide	ND	1.42	2.83	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Carbon tetrachloride	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Chlorobenzene	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Chloroethane	ND	2.83	2.83	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Chloroform	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Chloromethane	ND	0.708	1.42	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
2-Chlorotoluene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
4-Chlorotoluene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Dibromochloromethane	ND	0.283	0.566	mg/kg dry	50	12/23/20 19:53	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 13 of 118





ORELAP ID: OR100062

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

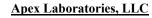
ANALYTICAL SAMPLE RESULTS

		olatile Organ	ic Compound	ds by EPA 82	60D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-4 (A0L0698-04)				Matrix: Soli	d	Batch:	0120869	
1,2-Dibromo-3-chloropropane	ND	0.708	1.42	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Dibromomethane	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,2-Dichlorobenzene	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,3-Dichlorobenzene	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,4-Dichlorobenzene	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Dichlorodifluoromethane	ND	0.283	0.566	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,1-Dichloroethane	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,1-Dichloroethene	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
cis-1,2-Dichloroethene	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
trans-1,2-Dichloroethene	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,2-Dichloropropane	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,3-Dichloropropane	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
2,2-Dichloropropane	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,1-Dichloropropene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
cis-1,3-Dichloropropene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
trans-1,3-Dichloropropene	ND	0.283	0.566	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Ethylbenzene	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Hexachlorobutadiene	ND	0.283	0.566	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
2-Hexanone	ND	1.42	2.83	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Isopropylbenzene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
4-Isopropyltoluene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Methylene chloride	ND	1.42	2.83	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	1.42	2.83	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Naphthalene	ND	0.283	0.566	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
n-Propylbenzene	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Styrene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Tetrachloroethene (PCE)	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Toluene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
CB-4 (A0L0698-04)				Matrix: Solid	i	Batch:	0120869	
1,2,3-Trichlorobenzene	ND	0.708	1.42	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,2,4-Trichlorobenzene	ND	0.708	1.42	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,1,1-Trichloroethane	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,1,2-Trichloroethane	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Trichloroethene (TCE)	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Trichlorofluoromethane	ND	0.283	0.566	mg/kg dry	50	12/23/20 19:53	5035A/8260D	Q-30
1,2,3-Trichloropropane	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,2,4-Trimethylbenzene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
1,3,5-Trimethylbenzene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Vinyl chloride	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
m,p-Xylene	ND	0.142	0.283	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
o-Xylene	ND	0.0708	0.142	mg/kg dry	50	12/23/20 19:53	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 104 %	Limits: 80-120 %	1	12/23/20 19:53	5035A/8260D	
Toluene-d8 (Surr)			99 %	80-120 %	1	12/23/20 19:53	5035A/8260D	
4-Bromofluorobenzene (Surr)			106 %	79-120 %	1	12/23/20 19:53	5035A/8260D	
CB-4_DUP (A0L0698-05)				Matrix: Solid	i	Batch:	0120869	
Acetone	ND	2.66	5.33	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Acrylonitrile	ND	0.266	0.533	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Benzene	ND	0.0266	0.0533	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Bromobenzene	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Bromochloromethane	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Bromodichloromethane	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Bromoform	ND	0.266	0.533	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Bromomethane	ND	2.66	2.66	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
2-Butanone (MEK)	ND	1.33	2.66	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
n-Butylbenzene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
sec-Butylbenzene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
tert-Butylbenzene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Carbon disulfide	ND	1.33	2.66	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Carbon tetrachloride	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Chlorobenzene	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Chloroethane	ND	2.66	2.66	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Chloroform	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
B-4_DUP (A0L0698-05)				Matrix: Soli	id	Batch:	0120869	
Chloromethane	ND	0.666	1.33	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
2-Chlorotoluene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
4-Chlorotoluene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Dibromochloromethane	ND	0.266	0.533	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	0.666	1.33	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Dibromomethane	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,2-Dichlorobenzene	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,3-Dichlorobenzene	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,4-Dichlorobenzene	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Dichlorodifluoromethane	ND	0.266	0.533	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,1-Dichloroethane	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,1-Dichloroethene	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
cis-1,2-Dichloroethene	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
trans-1,2-Dichloroethene	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,2-Dichloropropane	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,3-Dichloropropane	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
2,2-Dichloropropane	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,1-Dichloropropene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
cis-1,3-Dichloropropene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
trans-1,3-Dichloropropene	ND	0.266	0.533	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Ethylbenzene	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Hexachlorobutadiene	ND	0.266	0.533	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
2-Hexanone	ND	1.33	2.66	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Isopropylbenzene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
4-Isopropyltoluene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Methylene chloride	ND	1.33	2.66	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
-Methyl-2-pentanone (MiBK)	ND	1.33	2.66	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Vaphthalene	ND	0.266	0.533	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
-Propylbenzene	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
tyrene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





ORELAP ID: OR100062

GeoDesign, Inc. 9450 SW Commerce Circle Wilsonville, OR 97070 Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	V	olatile Organic	Compou	nds by EPA 826	0D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-4_DUP (A0L0698-05)				Matrix: Solid	I	Batch:	0120869	
1,1,1,2-Tetrachloroethane	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Tetrachloroethene (PCE)	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Toluene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,2,3-Trichlorobenzene	ND	0.666	1.33	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,2,4-Trichlorobenzene	ND	0.666	1.33	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,1,1-Trichloroethane	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,1,2-Trichloroethane	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Trichloroethene (TCE)	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Trichlorofluoromethane	ND	0.266	0.533	mg/kg dry	50	12/23/20 20:20	5035A/8260D	Q-30
1,2,3-Trichloropropane	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,2,4-Trimethylbenzene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
1,3,5-Trimethylbenzene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Vinyl chloride	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
m,p-Xylene	ND	0.133	0.266	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
o-Xylene	ND	0.0666	0.133	mg/kg dry	50	12/23/20 20:20	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery.	: 104 %	Limits: 80-120 %	I	12/23/20 20:20	5035A/8260D	
Toluene-d8 (Surr)			100 %	80-120 %	1	12/23/20 20:20	5035A/8260D	
4-Bromofluorobenzene (Surr)			104 %	79-120 %	I	12/23/20 20:20	5035A/8260D	
CB-5 (A0L0698-06)				Matrix: Solid	l	Batch:	0120837	
Acetone	ND	4.63	4.63	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Acrylonitrile	ND	0.463	0.463	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Benzene	ND	0.0231	0.0463	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Bromobenzene	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Bromochloromethane	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Bromodichloromethane	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Bromoform	ND	0.231	0.463	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Bromomethane	ND	2.31	2.31	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
2-Butanone (MEK)	ND	1.16	2.31	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
n-Butylbenzene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
sec-Butylbenzene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
tert-Butylbenzene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Carbon disulfide	ND	1.16	2.31	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Carbon disulfide	ND	1.16	2.31	mg/kg dry	50	12/23/20 10:54	5035A/8260I)

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 17 of 118





ORELAP ID: OR100062

<u>GeoDesign, Inc.</u> 9450 SW Commerce Circle Wilsonville, OR 97070 Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	V	olatile Organi	ic Compound	ds by EPA 82	60D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-5 (A0L0698-06)				Matrix: Soli	d	Batch: 0120837		
Carbon tetrachloride	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Chlorobenzene	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Chloroethane	ND	2.31	2.31	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Chloroform	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Chloromethane	ND	0.578	1.16	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
2-Chlorotoluene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
4-Chlorotoluene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Dibromochloromethane	ND	0.231	0.463	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	0.578	1.16	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Dibromomethane	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,2-Dichlorobenzene	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,3-Dichlorobenzene	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,4-Dichlorobenzene	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Dichlorodifluoromethane	ND	0.231	0.463	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,1-Dichloroethane	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,1-Dichloroethene	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
cis-1,2-Dichloroethene	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
trans-1,2-Dichloroethene	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,2-Dichloropropane	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,3-Dichloropropane	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
2,2-Dichloropropane	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,1-Dichloropropene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
cis-1,3-Dichloropropene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
trans-1,3-Dichloropropene	ND	0.231	0.463	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Ethylbenzene	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Hexachlorobutadiene	ND	0.231	0.463	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
2-Hexanone	ND	1.16	2.31	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Isopropylbenzene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
4-Isopropyltoluene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Methylene chloride	ND	1.16	2.31	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	1.16	2.31	mg/kg dry	50	12/23/20 10:54	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





ORELAP ID: OR100062

<u>GeoDesign, Inc.</u> 9450 SW Commerce Circle Wilsonville, OR 97070 Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	V	olatile Organi	c Compou	nds by EPA 826	0D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-5 (A0L0698-06)				Matrix: Solid	l	Batch:	0120837	
Methyl tert-butyl ether (MTBE)	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Naphthalene	ND	0.231	0.463	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
n-Propylbenzene	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Styrene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Tetrachloroethene (PCE)	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Toluene	0.562	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,2,3-Trichlorobenzene	ND	0.578	1.16	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,2,4-Trichlorobenzene	ND	0.578	1.16	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,1,1-Trichloroethane	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,1,2-Trichloroethane	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Trichloroethene (TCE)	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Trichlorofluoromethane	ND	0.231	0.463	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,2,3-Trichloropropane	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,2,4-Trimethylbenzene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
1,3,5-Trimethylbenzene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Vinyl chloride	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
m,p-Xylene	ND	0.116	0.231	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
o-Xylene	ND	0.0578	0.116	mg/kg dry	50	12/23/20 10:54	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 118 %	Limits: 80-120 %	I	12/23/20 10:54	5035A/8260D	
Toluene-d8 (Surr)			99 %	80-120 %		12/23/20 10:54	5035A/8260D	
4-Bromofluorobenzene (Surr)			103 %	79-120 %	1	12/23/20 10:54	5035A/8260D	
CB-6 (A0L0698-07)				Matrix: Solid	I	Batch:	0120837	
Acetone	ND	5.72	5.72	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Acrylonitrile	ND	0.572	0.572	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Benzene	ND	0.0286	0.0572	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Bromobenzene	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Bromochloromethane	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Bromodichloromethane	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Bromoform	ND	0.286	0.572	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Bromomethane	ND	2.86	2.86	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
2-Butanone (MEK)	ND	1.43	2.86	mg/kg dry	50	12/23/20 11:22	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 19 of 118





ORELAP ID: OR100062

GeoDesign, Inc.
9450 SW Commerce Circle

Wilsonville, OR 97070

Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	V	olatile Organ	ic Compound	as by EPA 82	60D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-6 (A0L0698-07)				Matrix: Soli	id	Batch: 0120837		
n-Butylbenzene	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
sec-Butylbenzene	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
tert-Butylbenzene	ND	0.286	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Carbon disulfide	ND	1.43	2.86	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Carbon tetrachloride	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Chlorobenzene	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Chloroethane	ND	2.86	2.86	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Chloroform	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Chloromethane	ND	0.714	1.43	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
2-Chlorotoluene	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
4-Chlorotoluene	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Dibromochloromethane	ND	0.286	0.572	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	0.714	1.43	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Dibromomethane	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,2-Dichlorobenzene	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,3-Dichlorobenzene	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,4-Dichlorobenzene	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Dichlorodifluoromethane	ND	0.286	0.572	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,1-Dichloroethane	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,1-Dichloroethene	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
cis-1,2-Dichloroethene	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
trans-1,2-Dichloroethene	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,2-Dichloropropane	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,3-Dichloropropane	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
2,2-Dichloropropane	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,1-Dichloropropene	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
cis-1,3-Dichloropropene	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
trans-1,3-Dichloropropene	ND	0.286	0.572	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Ethylbenzene	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Hexachlorobutadiene	ND	0.286	0.572	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
2-Hexanone	ND	1.43	2.86	mg/kg dry	50	12/23/20 11:22	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





ORELAP ID: OR100062

GeoDesign, Inc.
9450 SW Commerce Circle
Wilsonville, OR 97070

Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	v	olatile Organic	Compou	nds by EPA 826	מט			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-6 (A0L0698-07)				Matrix: Solid	ı	Batch:	0120837	
Isopropylbenzene	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
4-Isopropyltoluene	0.377	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Methylene chloride	ND	1.43	2.86	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
4-Methyl-2-pentanone (MiBK)	ND	1.43	2.86	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Methyl tert-butyl ether (MTBE)	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Naphthalene	0.286	0.286	0.572	mg/kg dry	50	12/23/20 11:22	5035A/8260D	J
n-Propylbenzene	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Styrene	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,1,1,2-Tetrachloroethane	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,1,2,2-Tetrachloroethane	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Tetrachloroethene (PCE)	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Toluene	0.149	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	J
1,2,3-Trichlorobenzene	ND	0.714	1.43	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,2,4-Trichlorobenzene	ND	0.714	1.43	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,1,1-Trichloroethane	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,1,2-Trichloroethane	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Trichloroethene (TCE)	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
Trichlorofluoromethane	ND	0.286	0.572	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,2,3-Trichloropropane	ND	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,2,4-Trimethylbenzene	0.552	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
1,3,5-Trimethylbenzene	0.194	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	J
Vinyl chloride	ND	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	
m,p-Xylene	0.220	0.143	0.286	mg/kg dry	50	12/23/20 11:22	5035A/8260D	J
o-Xylene	0.111	0.0714	0.143	mg/kg dry	50	12/23/20 11:22	5035A/8260D	J
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 117%	Limits: 80-120 %	1	12/23/20 11:22	5035A/8260D	
Toluene-d8 (Surr)			98 %	80-120 %	1	12/23/20 11:22	5035A/8260D	
4-Bromofluorobenzene (Surr)			103 %	79-120 %	1	12/23/20 11:22	5035A/8260D	
CB-7 (A0L0698-08)				Matrix: Solid	1	Batch:	0120837	
Acetone	ND	3.35	3.35	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Acrylonitrile	ND	0.335	0.335	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Benzene	ND	0.0168	0.0335	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Bromobenzene	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





ORELAP ID: OR100062

GeoDesign, Inc.
9450 SW Commerce Circle

Wilsonville, OR 97070

Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D								
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Note
CB-7 (A0L0698-08)				Matrix: Solid		Batch: 0120837		
Bromochloromethane	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Bromodichloromethane	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Bromoform	ND	0.168	0.335	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Bromomethane	ND	1.68	1.68	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
2-Butanone (MEK)	ND	0.839	1.68	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
n-Butylbenzene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
sec-Butylbenzene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
tert-Butylbenzene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Carbon disulfide	ND	0.839	1.68	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Carbon tetrachloride	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Chlorobenzene	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Chloroethane	ND	1.68	1.68	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Chloroform	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Chloromethane	ND	0.419	0.839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
2-Chlorotoluene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
4-Chlorotoluene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Dibromochloromethane	ND	0.168	0.335	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
1,2-Dibromo-3-chloropropane	ND	0.419	0.839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
1,2-Dibromoethane (EDB)	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Dibromomethane	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
1,2-Dichlorobenzene	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
1,3-Dichlorobenzene	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
1,4-Dichlorobenzene	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
Dichlorodifluoromethane	ND	0.168	0.335	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
1,1-Dichloroethane	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
1,2-Dichloroethane (EDC)	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
1,1-Dichloroethene	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
cis-1,2-Dichloroethene	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
trans-1,2-Dichloroethene	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
1,2-Dichloropropane	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
1,3-Dichloropropane	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
2,2-Dichloropropane	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	
1,1-Dichloropropene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D										
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes		
CB-7 (A0L0698-08)				Matrix: Solid		Batch:	0120837			
cis-1,3-Dichloropropene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
trans-1,3-Dichloropropene	ND	0.168	0.335	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Ethylbenzene	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Hexachlorobutadiene	ND	0.168	0.335	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
2-Hexanone	ND	0.839	1.68	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Isopropylbenzene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
4-Isopropyltoluene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Methylene chloride	ND	0.839	1.68	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
4-Methyl-2-pentanone (MiBK)	ND	0.839	1.68	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Methyl tert-butyl ether (MTBE)	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Naphthalene	0.168	0.168	0.335	mg/kg dry	50	12/23/20 02:45	5035A/8260D	J		
n-Propylbenzene	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Styrene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
1,1,1,2-Tetrachloroethane	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
1,1,2,2-Tetrachloroethane	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Tetrachloroethene (PCE)	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Toluene	0.151	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	J		
1,2,3-Trichlorobenzene	ND	0.419	0.839	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
1,2,4-Trichlorobenzene	ND	0.419	0.839	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
1,1,1-Trichloroethane	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
1,1,2-Trichloroethane	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Trichloroethene (TCE)	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Trichlorofluoromethane	ND	0.168	0.335	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
1,2,3-Trichloropropane	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
1,2,4-Trimethylbenzene	0.122	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D	J		
1,3,5-Trimethylbenzene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Vinyl chloride	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
m,p-Xylene	ND	0.0839	0.168	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
o-Xylene	ND	0.0419	0.0839	mg/kg dry	50	12/23/20 02:45	5035A/8260D			
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 104 %	Limits: 80-120 %	1	12/23/20 02:45	5035A/8260D			
Toluene-d8 (Surr)			100 %	80-120 %	1	12/23/20 02:45	5035A/8260D			
4-Bromofluorobenzene (Surr)			106 %	79-120 %	1	12/23/20 02:45	5035A/8260D			

Apex Laboratories

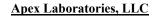
TB(121720) (A0L0698-09)

Philip Monterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Batch: 0120732

Matrix: Water





6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

GeoDesign, Inc.

Project:

9450 SW Commerce CircleProject Number: BCSAmerica-1-02Wilsonville, OR 97070Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

Former Automatic Vending Co.

	V	olatile Organ	ic Compound	as by EPA 8	260D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
ΓΒ(121720) (A0L0698-09)				Matrix: Wa	ater	Batch:	0120732	
Acetone	ND	10.0	20.0	ug/L	1	12/20/20 01:46	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	12/20/20 01:46	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	12/20/20 01:46	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	12/20/20 01:46	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	12/20/20 01:46	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	12/20/20 01:46	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	12/20/20 01:46	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Chloroform	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	12/20/20 01:46	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	12/20/20 01:46	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/20 01:46	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/20 01:46	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	12/20/20 01:46	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	12/20/20 01:46	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	12/20/20 01:46	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/20 01:46	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/20 01:46	EPA 8260D	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	12/20/20 01:46	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 24 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	V	olatile Organi	ic Compound	ds by EPA 8	3260D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TB(121720) (A0L0698-09)				Matrix: Wa	ater	Batch:	0120732	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	12/20/20 01:46	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	Q-30
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	12/20/20 01:46	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	12/20/20 01:46	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	12/20/20 01:46	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	12/20/20 01:46	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	12/20/20 01:46	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Naphthalene	ND	2.00	2.00	ug/L	1	12/20/20 01:46	EPA 8260D	Q-30
n-Propylbenzene	ND	0.250	0.500	ug/L	1	12/20/20 01:46	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	12/20/20 01:46	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	12/20/20 01:46	EPA 8260D	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1	12/20/20 01:46	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/20/20 01:46	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	12/20/20 01:46	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	12/20/20 01:46	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	12/20/20 01:46	EPA 8260D	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1	12/20/20 01:46	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	12/20/20 01:46	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
Vinyl chloride	ND	0.200	0.400	ug/L	1	12/20/20 01:46	EPA 8260D	
m,p-Xylene	ND	0.500	1.00	ug/L	1	12/20/20 01:46	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	12/20/20 01:46	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 25 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D									
Analyte	Sample Result	Detection Limit	Reporting Limit	U	nits	Dilution	Date Analyzed	Method Ref.	Notes
TB(121720) (A0L0698-09)				Mati	rix: Wate	ər	Batch:	0120732	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 105 %	Limits:	80-120 %	6 I	12/20/20 01:46	EPA 8260D	
Toluene-d8 (Surr)			105 %		80-120 %	6 I	12/20/20 01:46	EPA 8260D	
4-Bromofluorobenzene (Surr)			103 %		80-120 %	6 <i>1</i>	12/20/20 01:46	EPA 8260D	

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 26 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A												
	Sample	Detection	Reporting			Date						
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes				
CB-1 (A0L0698-01RE1)				Matrix: Soli	Matrix: Solid		Batch: 0121020					
Aroclor 1016	ND	0.00913	0.0183	mg/kg	1	01/04/21 08:19	EPA 8082A					
Aroclor 1221	ND	0.00913	0.0183	mg/kg	1	01/04/21 08:19	EPA 8082A					
Aroclor 1232	ND	0.0183	0.0183	mg/kg	1	01/04/21 08:19	EPA 8082A					
Aroclor 1242	ND	0.00913	0.0183	mg/kg	1	01/04/21 08:19	EPA 8082A					
Aroclor 1248	ND	0.00913	0.0183	mg/kg	1	01/04/21 08:19	EPA 8082A					
Aroclor 1254	ND	0.00913	0.0183	mg/kg	1	01/04/21 08:19	EPA 8082A					
Aroclor 1260	ND	0.00913	0.0183	mg/kg	1	01/04/21 08:19	EPA 8082A					
Surrogate: Decachlorobiphenyl (Surr)		Recov	very: 90 %	Limits: 60-125 %	6 I	01/04/21 08:19	EPA 8082A					
CB-2 (A0L0698-02RE1)				Matrix: Soli	d	Batch:	0121020	C-07				
Aroclor 1016	ND	0.00847	0.0169	mg/kg	1	01/04/21 09:30	EPA 8082A					
Aroclor 1221	ND	0.00847	0.0169	mg/kg	1	01/04/21 09:30	EPA 8082A					
Aroclor 1232	ND	0.0169	0.0169	mg/kg	1	01/04/21 09:30	EPA 8082A					
Aroclor 1242	ND	0.00847	0.0169	mg/kg	1	01/04/21 09:30	EPA 8082A					
Aroclor 1248	ND	0.00847	0.0169	mg/kg	1	01/04/21 09:30	EPA 8082A					
Aroclor 1254	0.0124	0.00847	0.0169	mg/kg	1	01/04/21 09:30	EPA 8082A	J				
Aroclor 1260	0.0152	0.00847	0.0169	mg/kg	1	01/04/21 09:30	EPA 8082A	J				
Surrogate: Decachlorobiphenyl (Surr)		Recov	very: 81 %	Limits: 60-125 %	6 I	01/04/21 09:30	EPA 8082A					
CB-3 (A0L0698-03RE1)				Matrix: Soli	d	Batch:	0121020	C-07				
Aroclor 1016	ND	0.00816	0.0163	mg/kg	1	01/04/21 10:05	EPA 8082A					
Aroclor 1221	ND	0.00816	0.0163	mg/kg	1	01/04/21 10:05	EPA 8082A					
Aroclor 1232	ND	0.00816	0.0163	mg/kg	1	01/04/21 10:05	EPA 8082A					
Aroclor 1242	0.111	0.00816	0.0163	mg/kg	1	01/04/21 10:05	EPA 8082A	P-12				
Aroclor 1248	ND	0.00816	0.0163	mg/kg	1	01/04/21 10:05	EPA 8082A					
Aroclor 1254	0.0456	0.00816	0.0163	mg/kg	1	01/04/21 10:05	EPA 8082A	P-12				
Aroclor 1260	0.0236	0.00816	0.0163	mg/kg	1	01/04/21 10:05	EPA 8082A	P-12				
Surrogate: Decachlorobiphenyl (Surr)		Recov	very: 80 %	Limits: 60-125 %	6 I	01/04/21 10:05	EPA 8082A					
CB-4 (A0L0698-04RE1)				Matrix: Soli	d	Batch:	0121020	C-07				
Aroclor 1016	ND	0.00926	0.0185	mg/kg	1	01/04/21 10:40	EPA 8082A					
Aroclor 1221	ND	0.00926	0.0185	mg/kg	1	01/04/21 10:40	EPA 8082A					
Aroclor 1232	ND	0.00926	0.0185	mg/kg	1	01/04/21 10:40	EPA 8082A					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 27 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

		roiyciiiorinai	ieu biplieny	ls by EPA 8082	<u> </u>			
	Sample	Detection	Reporting	** *	5 .11 .1	Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
CB-4 (A0L0698-04RE1)				Matrix: Solid		Batch: 0121020		C-07
Aroclor 1242	0.0328	0.00926	0.0185	mg/kg	1	01/04/21 10:40	EPA 8082A	P-12
Aroclor 1248	ND	0.00926	0.0185	mg/kg	1	01/04/21 10:40	EPA 8082A	
Aroclor 1254	0.311	0.00926	0.0185	mg/kg	1	01/04/21 10:40	EPA 8082A	P-12
Aroclor 1260	0.0433	0.00926	0.0185	mg/kg	1	01/04/21 10:40	EPA 8082A	P-12
Surrogate: Decachlorobiphenyl (Surr)		Reco	very: 82 %	Limits: 60-125 %	6 I	01/04/21 10:40	EPA 8082A	
CB-4_DUP (A0L0698-05RE1)				Matrix: Soli	d	Batch:	0121020	C-07
Aroclor 1016	ND	0.00766	0.0153	mg/kg	1	01/04/21 08:19	EPA 8082A	
Aroclor 1221	ND	0.00766	0.0153	mg/kg	1	01/04/21 08:19	EPA 8082A	
Aroclor 1232	ND	0.00766	0.0153	mg/kg	1	01/04/21 08:19	EPA 8082A	
Aroclor 1242	0.0482	0.00766	0.0153	mg/kg	1	01/04/21 08:19	EPA 8082A	P-12
Aroclor 1248	ND	0.00766	0.0153	mg/kg	1	01/04/21 08:19	EPA 8082A	
Aroclor 1254	0.240	0.00766	0.0153	mg/kg	1	01/04/21 08:19	EPA 8082A	P-12
Aroclor 1260	0.0588	0.00766	0.0153	mg/kg	1	01/04/21 08:19	EPA 8082A	P-12
Surrogate: Decachlorobiphenyl (Surr)		Reco	very: 83 %	Limits: 60-125 %	6 I	01/04/21 08:19	EPA 8082A	
CB-5 (A0L0698-06)				Matrix: Soli	d	Batch:	0121020	C-07
Aroclor 1016	ND	0.0962	0.192	mg/kg	10	12/31/20 21:38	EPA 8082A	
Aroclor 1221	ND	0.0962	0.192	mg/kg	10	12/31/20 21:38	EPA 8082A	
Aroclor 1232	ND	0.0962	0.192	mg/kg	10	12/31/20 21:38	EPA 8082A	
Aroclor 1242	ND	0.0962	0.192	mg/kg	10	12/31/20 21:38	EPA 8082A	
Aroclor 1248	ND	0.0962	0.192	mg/kg	10	12/31/20 21:38	EPA 8082A	
Aroclor 1254	1.48	0.0962	0.192	mg/kg	10	12/31/20 21:38	EPA 8082A	
Aroclor 1260	ND	0.0962	0.192	mg/kg	10	12/31/20 21:38	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Reco	very: 82 %	Limits: 60-125 %	6 10	12/31/20 21:38	EPA 8082A	
CB-6 (A0L0698-07RE1)				Matrix: Soli	d	Batch:	0121020	C-07
Aroclor 1016	ND	0.0196	0.0196	mg/kg	1	01/04/21 08:54	EPA 8082A	
Aroclor 1221	ND	0.0196	0.0196	mg/kg	1	01/04/21 08:54	EPA 8082A	
Aroclor 1232	ND	0.0604	0.0604	mg/kg	1	01/04/21 08:54	EPA 8082A	R-02
Aroclor 1242	ND	0.0196	0.0196	mg/kg	1	01/04/21 08:54	EPA 8082A	
Aroclor 1248	ND	0.0196	0.0196	mg/kg	1	01/04/21 08:54	EPA 8082A	
Aroclor 1254	0.0400	0.00980	0.0196	mg/kg	1	01/04/21 08:54	EPA 8082A	P-12

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A										
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes		
CB-6 (A0L0698-07RE1)			Matrix: Solid Batch: 0121020							
Aroclor 1260	0.0217	0.00980	0.0196	mg/kg	1	01/04/21 08:54	EPA 8082A	P-12		
Surrogate: Decachlorobiphenyl (Surr)		Recov	very: 88 %	Limits: 60-125 %	5 <i>1</i>	01/04/21 08:54	EPA 8082A			
CB-7 (A0L0698-08RE1)				Matrix: Solid	d	Batch:	0121020	C-07		
Aroclor 1016	ND	0.00966	0.0193	mg/kg	1	01/04/21 09:30	EPA 8082A			
Aroclor 1221	ND	0.0193	0.0193	mg/kg	1	01/04/21 09:30	EPA 8082A			
Aroclor 1232	ND	0.0193	0.0193	mg/kg	1	01/04/21 09:30	EPA 8082A			
Aroclor 1242	ND	0.00966	0.0193	mg/kg	1	01/04/21 09:30	EPA 8082A			
Aroclor 1248	ND	0.0193	0.0193	mg/kg	1	01/04/21 09:30	EPA 8082A			
Aroclor 1254	0.0531	0.00966	0.0193	mg/kg	1	01/04/21 09:30	EPA 8082A	P-12		
Aroclor 1260	0.0502	0.00966	0.0193	mg/kg	1	01/04/21 09:30	EPA 8082A	P-12		
Surrogate: Decachlorobiphenyl (Surr)		Recov	very: 97 %	Limits: 60-125 %	5 1	01/04/21 09:30	EPA 8082A			

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. 9450 SW Commerce Circle Wilsonville, OR 97070 Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

		Organochlori	ne Pesticid	es by EPA 8081	В			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-1 (A0L0698-01RE1)				Matrix: Solid		Batch: 0121015		C-05, R-04
Aldrin	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
alpha-BHC	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
beta-BHC	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
delta-BHC	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
gamma-BHC (Lindane)	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
cis-Chlordane	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
trans-Chlordane	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
4,4'-DDD	ND	0.0479	0.0479	mg/kg	2	12/31/20 13:55	EPA 8081B	R-02
4,4'-DDE	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
4,4'-DDT	ND	0.0331	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
Dieldrin	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
Endosulfan I	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
Endosulfan II	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
Endosulfan sulfate	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
Endrin	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
Endrin Aldehyde	ND	0.0331	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
Endrin ketone	ND	0.0331	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
Heptachlor	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
Heptachlor epoxide	ND	0.0165	0.0331	mg/kg	2	12/31/20 13:55	EPA 8081B	
Methoxychlor	ND	0.0496	0.0992	mg/kg	2	12/31/20 13:55	EPA 8081B	
Chlordane (Technical)	ND	0.496	0.992	mg/kg	2	12/31/20 13:55	EPA 8081B	
Toxaphene (Total)	ND	0.496	0.992	mg/kg	2	12/31/20 13:55	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Reco	very: 69 %	Limits: 42-129 %	2	12/31/20 13:55	EPA 8081B	
Decachlorobiphenyl (Surr)			124 %	55-130 %	2	12/31/20 13:55	EPA 8081B	
CB-2 (A0L0698-02RE1)				Matrix: Solid	l	Batch:	0121015	C-05, R-04
Aldrin	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
alpha-BHC	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
beta-BHC	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
delta-BHC	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
gamma-BHC (Lindane)	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
cis-Chlordane	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
trans-Chlordane	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

		Organochlor	ne Pesticid	es by EPA 8081	В			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-2 (A0L0698-02RE1)				Matrix: Solid	k	Batch:	0121015	C-05, R-04
4,4'-DDD	ND	0.0157	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
4,4'-DDE	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
4,4'-DDT	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
Dieldrin	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
Endosulfan I	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
Endosulfan II	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
Endosulfan sulfate	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
Endrin	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
Endrin Aldehyde	ND	0.0157	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
Endrin ketone	ND	0.0157	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
Heptachlor	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
Heptachlor epoxide	ND	0.00784	0.0157	mg/kg	1	12/31/20 15:04	EPA 8081B	
Methoxychlor	ND	0.0235	0.0471	mg/kg	1	12/31/20 15:04	EPA 8081B	
Chlordane (Technical)	ND	0.235	0.471	mg/kg	1	12/31/20 15:04	EPA 8081B	
Toxaphene (Total)	ND	0.235	0.471	mg/kg	1	12/31/20 15:04	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Reco	very: 57 %	Limits: 42-129 %	1	12/31/20 15:04	EPA 8081B	
Decachlorobiphenyl (Surr)			129 %	55-130 %	1	12/31/20 15:04	EPA 8081B	
CB-3 (A0L0698-03RE1)				Matrix: Solid	k	Batch:	0121015	C-05, R-04
Aldrin	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
alpha-BHC	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
beta-BHC	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
delta-BHC	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
gamma-BHC (Lindane)	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
cis-Chlordane	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
trans-Chlordane	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
4,4'-DDD	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
4,4'-DDE	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
4,4'-DDT	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
Dieldrin	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
Endosulfan I	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
Endosulfan II	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	
Endosulfan sulfate	ND	0.00930	0.0186	mg/kg	1	12/31/20 13:19	EPA 8081B	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 31 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

Batch			organochlori	ne Pesticid	es by EPA 8081	D			
Batch: 1910 Satch: 1910	Analyte				Units	Dilution		Method Ref.	Notes
Endrin ND 0.00930 0.0186 mg/kg 1 12/31/20 13:19 EPA 8081B Endrin Aldehyde ND 0.00930 0.0186 mg/kg 1 12/31/20 13:19 EPA 8081B Endrin Aldehyde ND 0.00930 0.0186 mg/kg 1 12/31/20 13:19 EPA 8081B Endrin Aldehyde ND 0.00930 0.0186 mg/kg 1 12/31/20 13:19 EPA 8081B EPA 8081B Endrin Aldehyde ND 0.00930 0.0186 mg/kg 1 12/31/20 13:19 EPA 8081B EPA 80	•								
Endrin Aldehyde ND 0.00930 0.0186 mg/kg 1 123120 13:19 EPA 8081B Endrin Ketone ND 0.00930 0.0186 mg/kg 1 123120 13:19 EPA 8081B Heptachlor ND 0.00930 0.0186 mg/kg 1 123120 13:19 EPA 8081B Heptachlor ND 0.00930 0.0186 mg/kg 1 123120 13:19 EPA 8081B Heptachlor ND 0.00930 0.0186 mg/kg 1 123120 13:19 EPA 8081B Methoxychlor ND 0.0279 0.0558 mg/kg 1 123120 13:19 EPA 8081B Methoxychlor ND 0.279 0.558 mg/kg 1 123120 13:19 EPA 8081B Toxaphene (Total) ND 0.279 0.558 mg/kg 1 123120 13:19 EPA 8081B Toxaphene (Total) ND 0.279 0.558 mg/kg 1 123120 13:19 EPA 8081B Surrogove 2.45.5-TCMX (Surr) ERCOVEY 63 Mg/kg 1 123120 13:19 EPA 8081B Deachlorobliphonyl (Surr) Pa 8000 ND 0.279 ND 0.558 mg/kg 1 123120 13:19 EPA 8081B Deachlorobliphonyl (Surr) Pa 8000 ND 0.00943 ND	,						- 00, 11 04		
Endrin ketone ND 0.00930 0.0186 mg/kg 1 12/31/20 13:19 EPA 8081B Heptachlor ND 0.00930 0.0186 mg/kg 1 12/31/20 13:19 EPA 8081B Heptachlor epoxide ND 0.00930 0.0186 mg/kg 1 12/31/20 13:19 EPA 8081B Methoxychlor ND 0.0279 0.0558 mg/kg 1 12/31/20 13:19 EPA 8081B Chlordane (Technical) ND 0.279 0.558 mg/kg 1 12/31/20 13:19 EPA 8081B Tōxaphene (Total) ND 0.279 0.558 mg/kg 1 12/31/20 13:19 EPA 8081B Tōxaphene (Total) ND 0.279 0.558 mg/kg 1 12/31/20 13:19 EPA 8081B Surrogarie: 2.4.5.6-TCMX (Surr)									
Heptachlor ND 0.00930 0.0186 mg/kg 1 12/31/20 13:19 EPA 8081B Heptachlor epoxide ND 0.00930 0.0186 mg/kg 1 12/31/20 13:19 EPA 8081B Methoxychlor ND 0.0279 0.0558 mg/kg 1 12/31/20 13:19 EPA 8081B Heptachlor epoxide ND 0.0279 0.558 mg/kg 1 12/31/20 13:19 EPA 8081B Hothordane (Technical) ND 0.279 0.558 mg/kg 1 12/31/20 13:19 EPA 8081B Toxaphene (Total) ND 0.279 0.558 mg/kg 1 12/31/20 13:19 EPA 8081B Surrogate: 2.4,5.6-TCMX (Surr) EPA 8081B Surrogate: 2.4,5.6-TCMX (Surr) EPA 8081B Betachlorobjalenyl (Surr) 63 % Limits: 42-129 % 1 12/31/20 13:19 EPA 8081B Betachlorobjalenyl (Surr) 63 % Limits: 42-129 % 1 12/31/20 13:19 EPA 8081B Betachlorobjalenyl (Surr) 64 % Limits: Solid Batch: 0.121/10 13:19 EPA 8081B Betachlorobjalenyl (Surr) 70 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B beta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B beta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B delta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B delta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan I ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan I ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan I	•				0 0				
Heptachlor epoxide					0 0				
Methoxychlor ND 0.0279 0.0558 mg/kg 1 12/31/20 13:19 EPA 8081B Chlordane (Technical) ND 0.279 0.558 mg/kg 1 12/31/20 13:19 EPA 8081B Toxaphene (Total) ND 0.279 0.558 mg/kg 1 12/31/20 13:19 EPA 8081B Bernous (Surry) EPA 8081B Co.558 mg/kg 1 12/31/20 13:19 EPA 8081B Decachloroblyhen/(Surry) Matrix: Solid Batch: 012 015:0 EPA 8081B Bet- (A0L0698-04RE1) Watrix: Solid Batch: 012 015:5 EPA 8081B Bet- (A0L0698-04RE1) Watrix: Solid Batch: 012 013:53 EPA 8081B Aldrin ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Beta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B gamma-BHC (Lindane) ND 0.00943 0.0189	•				0 0				
Chlordane (Technical) ND 0.279 0.558 mg/kg 1 12/31/20 13:19 EPA 8081B Toxaphene (Total) ND 0.279 0.558 mg/kg 1 12/31/20 13:19 EPA 8081B Surrogate: 2,4,5,6-TCMX (Surr) EPA 8081B Decachlorobiphenyl	1 1								
Toxaphene (Total) ND 0.279 0.558 mg/kg 1 12/31/20 13:19 EPA 8081B	·				0 0				
Recovery: 65% Limits: 42-129 % 1 12/31/20 13:19 EPA 8081B Decachlorobiphenyl (Surr) 91 % 55-130 % 1 12/31/20 13:19 EPA 8081B Decachlorobiphenyl (Surr) 1 12/31/20 13:19 EPA 8081B Decachlorobiphenyl (Surr) 1 12/31/20 13:19 EPA 8081B Decachlorobiphenyl (Surr) 1 12/31/20 13:53 EPA 8081B Decachlorobiphenyl (Surr) 1 1 1 1 1 1 1 1 1	, ,								
Part	Toxaphene (Total)	ND	0.279	0.558	mg/kg	1	12/31/20 13:19	EPA 8081B	
Matrix: Solid Batch: 0121015 C-05, R-04	Surrogate: 2,4,5,6-TCMX (Surr)		Recov	very: 65 %	Limits: 42-129 %	1	12/31/20 13:19	EPA 8081B	
Aldrin ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B alpha-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B beta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B beta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B delta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B gamma-BHC (Lindane) ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B cis-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.0264 0.0264 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B delta-BHC ND	Decachlorobiphenyl (Surr)			91 %	55-130 %	1	12/31/20 13:19	EPA 8081B	
alpha-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B beta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B delta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B gamma-BHC (Lindane) ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B cis-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.0264 0.0264 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.0264 0.0264 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.0264 0.0264 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B 4,4*-DDD ND <th< td=""><td>CB-4 (A0L0698-04RE1)</td><td></td><td></td><td></td><td>Matrix: Solid</td><td>i</td><td>Batch:</td><td>0121015</td><td>C-05, R-04</td></th<>	CB-4 (A0L0698-04RE1)				Matrix: Solid	i	Batch:	0121015	C-05, R-04
beta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B delta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B gamma-BHC (Lindane) ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B cis-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.0264 0.0264 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B 4,4'-DDD ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B 4,4'-DDT ND 0.0189 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan I ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan sulfate ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/2	Aldrin	ND	0.00943	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
delta-BHC ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B gamma-BHC (Lindane) ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B cis-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.0264 0.0264 mg/kg 1 12/31/20 13:53 EPA 8081B R-02 4,4*-DDD ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B R-02 4,4*-DDE ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B 4,4*-DDT ND 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B 4,4*-DDT ND 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan Sulfate ND 0.00943	alpha-BHC	ND	0.00943	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
gamma-BHC (Lindane) ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B cis-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.0264 0.0264 mg/kg 1 12/31/20 13:53 EPA 8081B R-02 4,4'-DDD ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B R-02 4,4'-DDE ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B 4,4'-DDT ND 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B 4,4'-DDT ND 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943	beta-BHC	ND	0.00943	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
cis-Chlordane ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B trans-Chlordane ND 0.0264 0.0264 mg/kg 1 12/31/20 13:53 EPA 8081B R-02 4,4'-DDD ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B R-02 4,4'-DDE ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B 4,4'-DDT ND 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Sulfate ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor ND	delta-BHC	ND	0.00943	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
trans-Chlordane ND 0.0264 0.0264 mg/kg 1 12/31/20 13:53 EPA 8081B R-02 4,4'-DDD ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B R-02 4,4'-DDE ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B A,4'-DDT ND 0.0189 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B EPA 8081B Endosulfan I ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan III ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan sulfate ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B EP	gamma-BHC (Lindane)	ND	0.00943	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
4,4'-DDD	cis-Chlordane	ND	0.00943	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
4,4'-DDE	trans-Chlordane	ND	0.0264	0.0264	mg/kg	1	12/31/20 13:53	EPA 8081B	R-02
4,4'-DDT ND 0.0189 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Dieldrin ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan I ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan sulfate ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.0283 0.0566 mg/kg 1 12/31/20 13:53 EPA 8081B	4,4'-DDD	ND	0.00943	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
Dieldrin ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan I ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan sulfate ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.0	4,4'-DDE	ND	0.00943	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
Endosulfan I ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan sulfate ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B	4,4'-DDT	ND	0.0189	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan sulfate ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B	Dieldrin	ND	0.00943	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
Endosulfan II ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endosulfan sulfate ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.0283 0.0566 mg/kg 1 12/31/20 13:53 EPA 8081B	Endosulfan I	ND	0.00943	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
Endrin ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.0283 0.0566 mg/kg 1 12/31/20 13:53 EPA 8081B	Endosulfan II	ND	0.00943	0.0189		1	12/31/20 13:53	EPA 8081B	
Endrin ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.0283 0.0566 mg/kg 1 12/31/20 13:53 EPA 8081B	Endosulfan sulfate	ND	0.00943	0.0189	mg/kg	1	12/31/20 13:53	EPA 8081B	
Endrin Aldehyde ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.0283 0.0566 mg/kg 1 12/31/20 13:53 EPA 8081B	Endrin	ND	0.00943	0.0189	0 0	1	12/31/20 13:53	EPA 8081B	
Endrin ketone ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.0283 0.0566 mg/kg 1 12/31/20 13:53 EPA 8081B	Endrin Aldehyde	ND	0.00943	0.0189	0 0	1	12/31/20 13:53	EPA 8081B	
Heptachlor ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.0283 0.0566 mg/kg 1 12/31/20 13:53 EPA 8081B	•				0 0	1	12/31/20 13:53	EPA 8081B	
Heptachlor epoxide ND 0.00943 0.0189 mg/kg 1 12/31/20 13:53 EPA 8081B Methoxychlor ND 0.0283 0.0566 mg/kg 1 12/31/20 13:53 EPA 8081B					0 0		12/31/20 13:53	EPA 8081B	
Methoxychlor ND 0.0283 0.0566 mg/kg 1 12/31/20 13:53 EPA 8081B	1				0 0				
,									
	Chlordane (Technical)	ND	0.283	0.566	mg/kg	1	12/31/20 13:53	EPA 8081B	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

		_		les by EPA 8081		_		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-4 (A0L0698-04RE1)	resure	Emin	Limit	Matrix: Solic		•	0121015	C-05, R-04
,								0-03, 11-04
Toxaphene (Total)	ND	0.283	0.566	mg/kg	1	12/31/20 13:53	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Recovery		Limits: 42-129 %		12/31/20 13:53	EPA 8081B	S-06
Decachlorobiphenyl (Surr)			79 %	55-130 %	1	12/31/20 13:53	EPA 8081B	
CB-4_DUP (A0L0698-05RE1)				Matrix: Solid	l	Batch:	0121015	C-05, R-04
Aldrin	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
alpha-BHC	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
beta-BHC	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
delta-BHC	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
gamma-BHC (Lindane)	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
cis-Chlordane	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
trans-Chlordane	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
4,4'-DDD	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
4,4'-DDE	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
4,4'-DDT	ND	0.0192	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
Dieldrin	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
Endosulfan I	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
Endosulfan II	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
Endosulfan sulfate	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
Endrin	ND	0.0192	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
Endrin Aldehyde	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
Endrin ketone	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
Heptachlor	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
Heptachlor epoxide	ND	0.00962	0.0192	mg/kg	1	12/31/20 14:27	EPA 8081B	
Methoxychlor	ND	0.0288	0.0577	mg/kg	1	12/31/20 14:27	EPA 8081B	
Chlordane (Technical)	ND	0.288	0.577	mg/kg	1	12/31/20 14:27	EPA 8081B	
Toxaphene (Total)	ND	0.288	0.577	mg/kg	1	12/31/20 14:27	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Recovery		Limits: 42-129 %		12/31/20 14:27	EPA 8081B	
Decachlorobiphenyl (Surr)			99 %	55-130 %	1	12/31/20 14:27	EPA 8081B	
CB-5 (A0L0698-06RE1)				Matrix: Solid	I	Batch:	0121015	C-05, R-04
Aldrin	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
alpha-BHC	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
beta-BHC	ND	0.0284	0.0284	mg/kg	1	12/31/20 15:01	EPA 8081B	R-02

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	(Organochlorine	Pesticid	es by EPA 8081	IB			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-5 (A0L0698-06RE1)				Matrix: Solid	t	Batch:	0121015	C-05, R-04
delta-BHC	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
gamma-BHC (Lindane)	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
cis-Chlordane	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
trans-Chlordane	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
4,4'-DDD	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
4,4'-DDE	ND	0.0196	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
4,4'-DDT	ND	0.0500	0.0500	mg/kg	1	12/31/20 15:01	EPA 8081B	R-02
Dieldrin	ND	0.0196	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
Endosulfan I	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
Endosulfan II	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
Endosulfan sulfate	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
Endrin	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
Endrin Aldehyde	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
Endrin ketone	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
Heptachlor	ND	0.00980	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
Heptachlor epoxide	ND	0.0196	0.0196	mg/kg	1	12/31/20 15:01	EPA 8081B	
Methoxychlor	ND	0.0294	0.0588	mg/kg	1	12/31/20 15:01	EPA 8081B	
Chlordane (Technical)	ND	0.294	0.588	mg/kg	1	12/31/20 15:01	EPA 8081B	
Toxaphene (Total)	ND	0.294	0.588	mg/kg	1	12/31/20 15:01	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Recovery	: 54%	Limits: 42-129 %	5 I	12/31/20 15:01	EPA 8081B	
Decachlorobiphenyl (Surr)			88 %	55-130 %	1	12/31/20 15:01	EPA 8081B	
B-6 (A0L0698-07RE1)				Matrix: Solid	d	Batch:	0121015	C-05
Aldrin	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
alpha-BHC	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
beta-BHC	ND	0.0137	0.0137	mg/kg	1	01/04/21 13:20	EPA 8081B	R-02
delta-BHC	ND	0.00943	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
gamma-BHC (Lindane)	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
cis-Chlordane	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
trans-Chlordane	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
4,4'-DDD	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
4,4'-DDE	ND	0.00943	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
4,4'-DDT	ND	0.00943	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 34 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
CB-6 (A0L0698-07RE1)				Matrix: Soli	d	Batch:	0121015	C-05
Dieldrin	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
Endosulfan I	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
Endosulfan II	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
Endosulfan sulfate	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
Endrin	ND	0.00943	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
Endrin Aldehyde	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
Endrin ketone	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
Heptachlor	ND	0.00943	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
Heptachlor epoxide	ND	0.00472	0.00943	mg/kg	1	01/04/21 13:20	EPA 8081B	
Methoxychlor	ND	0.0142	0.0283	mg/kg	1	01/04/21 13:20	EPA 8081B	
Chlordane (Technical)	ND	0.142	0.283	mg/kg	1	01/04/21 13:20	EPA 8081B	
Toxaphene (Total)	ND	0.142	0.283	mg/kg	1	01/04/21 13:20	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		Recor	very: 87 %	Limits: 42-129 %	6 I	01/04/21 13:20	EPA 8081B	
Decachlorobiphenyl (Surr)			92 %	55-130 %	6 I	01/04/21 13:20	EPA 8081B	
CB-7 (A0L0698-08RE1)				Matrix: Soli	d	Batch:	0121015	C-05
Aldrin	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
alpha-BHC	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
beta-BHC	ND	0.00866	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
delta-BHC	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
gamma-BHC (Lindane)	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
cis-Chlordane	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
trans-Chlordane	ND	0.0130	0.0130	mg/kg	1	01/04/21 13:37	EPA 8081B	R-02
4,4'-DDD	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
4,4'-DDE	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
4,4'-DDT	ND	0.00866	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
Dieldrin	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
Endosulfan I	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
Endosulfan II	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
Endosulfan sulfate	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
Endrin	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	
Endrin Aldehyde	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 35 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Organochlorine Pesticides by EPA 8081B											
	Sample	Detection	Reporting			Date						
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes				
CB-7 (A0L0698-08RE1)				Matrix: Solid	d	Batch:	Batch: 0121015					
Heptachlor	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B					
Heptachlor epoxide	ND	0.00433	0.00866	mg/kg	1	01/04/21 13:37	EPA 8081B					
Methoxychlor	ND	0.0130	0.0260	mg/kg	1	01/04/21 13:37	EPA 8081B					
Chlordane (Technical)	ND	0.130	0.260	mg/kg	1	01/04/21 13:37	EPA 8081B					
Toxaphene (Total)	ND	0.130	0.260	mg/kg	1	01/04/21 13:37	EPA 8081B					
Surrogate: 2,4,5,6-TCMX (Surr)		Reco	very: 79 %	Limits: 42-129 %	5 1	01/04/21 13:37	EPA 8081B					
Decachlorobiphenyl (Surr)			92 %	55-130 %	5 1	01/04/21 13:37	EPA 8081B					

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 36 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

			-	ounds by EPA 8				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-1 (A0L0698-01)				Matrix: Solid		Batch:	0120994	
Acenaphthene	0.957	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	J, Q-42
Acenaphthylene	ND	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	
Anthracene	3.07	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	
Benz(a)anthracene	14.4	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	
Benzo(a)pyrene	21.4	1.41	2.82	mg/kg	40	12/30/20 17:54	EPA 8270E	
Benzo(b)fluoranthene	27.3	1.41	2.82	mg/kg	40	12/30/20 17:54	EPA 8270E	M-05
Benzo(k)fluoranthene	18.6	1.41	2.82	mg/kg	40	12/30/20 17:54	EPA 8270E	M-05
Benzo(g,h,i)perylene	21.1	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	
Chrysene	26.6	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	
Dibenz(a,h)anthracene	2.90	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	
Fluoranthene	41.2	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	
Fluorene	ND	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	Q-42
Indeno(1,2,3-cd)pyrene	21.1	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	
1-Methylnaphthalene	ND	1.88	3.75	mg/kg	40	12/30/20 17:54	EPA 8270E	
2-Methylnaphthalene	ND	1.88	3.75	mg/kg	40	12/30/20 17:54	EPA 8270E	
Naphthalene	ND	1.88	3.75	mg/kg	40	12/30/20 17:54	EPA 8270E	
Phenanthrene	17.2	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	
Pyrene	37.4	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	
Carbazole	5.29	1.41	2.82	mg/kg	40	12/30/20 17:54	EPA 8270E	
Dibenzofuran	ND	0.937	1.88	mg/kg	40	12/30/20 17:54	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	14.1	28.2	mg/kg	40	12/30/20 17:54	EPA 8270E	
Butyl benzyl phthalate	ND	9.37	18.8	mg/kg	40	12/30/20 17:54	EPA 8270E	
Diethylphthalate	ND	9.37	18.8	mg/kg	40	12/30/20 17:54	EPA 8270E	
Dimethylphthalate	ND	9.37	18.8	mg/kg	40	12/30/20 17:54	EPA 8270E	
Di-n-butylphthalate	ND	9.37	18.8	mg/kg	40	12/30/20 17:54	EPA 8270E	
Di-n-octyl phthalate	ND	9.37	18.8	mg/kg	40	12/30/20 17:54	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery	: 47 %	Limits: 37-122 %	40	12/30/20 17:54	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			68 %	44-120 %	40	12/30/20 17:54	EPA 8270E	S-05
Phenol-d6 (Surr)			61 %	33-122 %	40	12/30/20 17:54	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			78 %	54-127 %	40	12/30/20 17:54	EPA 8270E	S-05
2-Fluorophenol (Surr) 2,4,6-Tribromophenol (Surr)			58 % 187 %	35-120 % 39-132 %	40 40	12/30/20 17:54 12/30/20 17:54	EPA 8270E EPA 8270E	S-05 S-05

Apex Laboratories

Philip Merenberg

CB-2 (A0L0698-02)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Matrix: Solid

Batch: 0120994

Philip Nerenberg, Lab Director

Page 37 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
B-2 (A0L0698-02)				Matrix: Solid	1	Batch:	0120994	
Acenaphthene	ND	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Acenaphthylene	ND	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Anthracene	ND	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Benz(a)anthracene	2.65	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Benzo(a)pyrene	4.16	1.24	2.49	mg/kg	40	12/30/20 20:22	EPA 8270E	
Benzo(b)fluoranthene	4.59	1.24	2.49	mg/kg	40	12/30/20 20:22	EPA 8270E	M-05
Benzo(k)fluoranthene	3.69	1.24	2.49	mg/kg	40	12/30/20 20:22	EPA 8270E	M-05
Benzo(g,h,i)perylene	2.97	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Chrysene	4.64	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Fluoranthene	7.24	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Fluorene	ND	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Indeno(1,2,3-cd)pyrene	2.87	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
l-Methylnaphthalene	ND	1.66	3.32	mg/kg	40	12/30/20 20:22	EPA 8270E	
2-Methylnaphthalene	ND	1.66	3.32	mg/kg	40	12/30/20 20:22	EPA 8270E	
Naphthalene	ND	1.66	3.32	mg/kg	40	12/30/20 20:22	EPA 8270E	
Phenanthrene	2.49	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Pyrene	6.71	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Carbazole	ND	1.24	2.49	mg/kg	40	12/30/20 20:22	EPA 8270E	
Dibenzofuran	ND	0.828	1.66	mg/kg	40	12/30/20 20:22	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	12.4	24.9	mg/kg	40	12/30/20 20:22	EPA 8270E	
Butyl benzyl phthalate	ND	8.28	16.6	mg/kg	40	12/30/20 20:22	EPA 8270E	
Diethylphthalate	ND	8.28	16.6	mg/kg	40	12/30/20 20:22	EPA 8270E	
Dimethylphthalate	ND	8.28	16.6	mg/kg	40	12/30/20 20:22	EPA 8270E	
Di-n-butylphthalate	ND	8.28	16.6	mg/kg	40	12/30/20 20:22	EPA 8270E	
Di-n-octyl phthalate	ND	8.28	16.6	mg/kg	40	12/30/20 20:22	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recov	very: 54 %	Limits: 37-122 %	5 40	12/30/20 20:22	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			69 %	44-120 %		12/30/20 20:22	EPA 8270E	S-05
Phenol-d6 (Surr)			57 %	33-122 %		12/30/20 20:22	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			83 %	54-127 %		12/30/20 20:22	EPA 8270E	S-05
2-Fluorophenol (Surr) 2,4,6-Tribromophenol (Surr)			56 % 187 %	35-120 % 39-132 %		12/30/20 20:22 12/30/20 20:22	EPA 8270E EPA 8270E	S-05 S-05

CB-3 (A0L0698-03)

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Batch: 0120994

Matrix: Solid

Philip Nerenberg, Lab Director

Page 38 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc.

Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Sample	Detection 1	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-3 (A0L0698-03)				Matrix: Solid		Batch:	0120994	
Acenaphthene	ND	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	
Acenaphthylene	ND	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	
Anthracene	ND	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	
Benz(a)anthracene	1.73	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	J
Benzo(a)pyrene	2.76	1.30	2.61	mg/kg	40	12/30/20 20:58	EPA 8270E	
Benzo(b)fluoranthene	3.16	1.30	2.61	mg/kg	40	12/30/20 20:58	EPA 8270E	M-05
Benzo(k)fluoranthene	2.49	1.30	2.61	mg/kg	40	12/30/20 20:58	EPA 8270E	J
Benzo(g,h,i)perylene	1.74	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	
Chrysene	2.71	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	
Fluoranthene	3.91	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	
Fluorene	ND	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	
Indeno(1,2,3-cd)pyrene	1.74	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	
1-Methylnaphthalene	ND	1.74	3.48	mg/kg	40	12/30/20 20:58	EPA 8270E	
2-Methylnaphthalene	ND	1.74	3.48	mg/kg	40	12/30/20 20:58	EPA 8270E	
Naphthalene	ND	1.74	3.48	mg/kg	40	12/30/20 20:58	EPA 8270E	
Phenanthrene	1.62	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	J
Pyrene	3.62	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	
Carbazole	ND	1.30	2.61	mg/kg	40	12/30/20 20:58	EPA 8270E	
Dibenzofuran	ND	0.867	1.74	mg/kg	40	12/30/20 20:58	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	13.0	26.1	mg/kg	40	12/30/20 20:58	EPA 8270E	
Butyl benzyl phthalate	ND	8.67	17.4	mg/kg	40	12/30/20 20:58	EPA 8270E	
Diethylphthalate	ND	8.67	17.4	mg/kg	40	12/30/20 20:58	EPA 8270E	
Dimethylphthalate	ND	8.67	17.4	mg/kg	40	12/30/20 20:58	EPA 8270E	
Di-n-butylphthalate	ND	8.67	17.4	mg/kg	40	12/30/20 20:58	EPA 8270E	
Di-n-octyl phthalate	ND	8.67	17.4	mg/kg	40	12/30/20 20:58	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery	: 55 %	Limits: 37-122 %	40	12/30/20 20:58	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)		-	68 %	44-120 %	40	12/30/20 20:58	EPA 8270E	S-05
Phenol-d6 (Surr)			64 %	33-122 %		12/30/20 20:58	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			86 %	54-127 %		12/30/20 20:58	EPA 8270E	S-05
2-Fluorophenol (Surr)			59 %	35-120 %		12/30/20 20:58	EPA 8270E	S-05
2,4,6-Tribromophenol (Surr)			188 %	39-132 %	40	12/30/20 20:58	EPA 8270E	S-05

CB-4 (A0L0698-04RE1) Matrix: Solid Batch: 0120994

Apex Laboratories

Philip Manherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 39 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Sen	iivoiaule Organ	iic comp	ounds by EPA 8	21UE			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
	Kesuit	Liniit	Lillit			<u> </u>		inotes
CB-4 (A0L0698-04RE1)				Matrix: Solid		Batch:	0120994	
Acenaphthene	ND	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	
Acenaphthylene	ND	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	
Anthracene	ND	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	
Benz(a)anthracene	0.570	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	J
Benzo(a)pyrene	1.22	0.685	1.37	mg/kg	20	12/31/20 21:19	EPA 8270E	J
Benzo(b)fluoranthene	1.40	0.685	1.37	mg/kg	20	12/31/20 21:19	EPA 8270E	M-05
Benzo(k)fluoranthene	1.02	0.685	1.37	mg/kg	20	12/31/20 21:19	EPA 8270E	J
Benzo(g,h,i)perylene	0.550	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	J
Chrysene	1.08	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	
Fluoranthene	1.28	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	
Fluorene	ND	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	
Indeno(1,2,3-cd)pyrene	0.663	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	J
1-Methylnaphthalene	ND	0.914	1.83	mg/kg	20	12/31/20 21:19	EPA 8270E	
2-Methylnaphthalene	ND	0.914	1.83	mg/kg	20	12/31/20 21:19	EPA 8270E	
Naphthalene	ND	0.914	1.83	mg/kg	20	12/31/20 21:19	EPA 8270E	
Phenanthrene	0.638	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	J
Pyrene	1.36	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	
Carbazole	ND	0.685	1.37	mg/kg	20	12/31/20 21:19	EPA 8270E	
Dibenzofuran	ND	0.455	0.914	mg/kg	20	12/31/20 21:19	EPA 8270E	
Bis(2-ethylhexyl)phthalate	10.3	6.85	13.7	mg/kg	20	12/31/20 21:19	EPA 8270E	J
Butyl benzyl phthalate	ND	4.55	9.14	mg/kg	20	12/31/20 21:19	EPA 8270E	
Diethylphthalate	ND	4.55	9.14	mg/kg	20	12/31/20 21:19	EPA 8270E	
Dimethylphthalate	ND	4.55	9.14	mg/kg	20	12/31/20 21:19	EPA 8270E	
Di-n-butylphthalate	ND	4.55	9.14	mg/kg	20	12/31/20 21:19	EPA 8270E	
Di-n-octyl phthalate	ND	4.55	9.14	mg/kg	20	12/31/20 21:19	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery): 46 %	Limits: 37-122 %	20	12/31/20 21:19	EPA 8270E	
2-Fluorobiphenyl (Surr)		-	64 %	44-120 %	20	12/31/20 21:19	EPA 8270E	
Phenol-d6 (Surr)			62 %	33-122 %	20	12/31/20 21:19	EPA 8270E	
p-Terphenyl-d14 (Surr)			87 %	54-127 %	20	12/31/20 21:19	EPA 8270E	
2-Fluorophenol (Surr)			58 %	35-120 %	20	12/31/20 21:19	EPA 8270E	
2,4,6-Tribromophenol (Surr)			137 %	39-132 %	20	12/31/20 21:19	EPA 8270E	S-06

Apex Laboratories

CB-4_DUP (A0L0698-05RE1)

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Batch: 0120994

Matrix: Solid

Philip Nerenberg, Lab Director

Page 40 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

				ounds by EPA 8		-		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-4_DUP (A0L0698-05RE1)				Matrix: Solic	i	Batch:	0120994	
Acenaphthene	ND	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	
Acenaphthylene	ND	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	
Anthracene	ND	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	
Benz(a)anthracene	0.572	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	J
Benzo(a)pyrene	1.18	0.577	1.15	mg/kg	20	12/31/20 21:55	EPA 8270E	
Benzo(b)fluoranthene	1.39	0.577	1.15	mg/kg	20	12/31/20 21:55	EPA 8270E	M-05
Benzo(k)fluoranthene	0.978	0.577	1.15	mg/kg	20	12/31/20 21:55	EPA 8270E	J
Benzo(g,h,i)perylene	0.580	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	J
Chrysene	1.05	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	
Fluoranthene	1.32	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	
Fluorene	ND	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	
Indeno(1,2,3-cd)pyrene	0.760	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	J
1-Methylnaphthalene	ND	0.770	1.54	mg/kg	20	12/31/20 21:55	EPA 8270E	
2-Methylnaphthalene	ND	0.770	1.54	mg/kg	20	12/31/20 21:55	EPA 8270E	
Naphthalene	ND	0.770	1.54	mg/kg	20	12/31/20 21:55	EPA 8270E	
Phenanthrene	0.687	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	J
Pyrene	1.41	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	
Carbazole	ND	0.577	1.15	mg/kg	20	12/31/20 21:55	EPA 8270E	
Dibenzofuran	ND	0.384	0.770	mg/kg	20	12/31/20 21:55	EPA 8270E	
Bis(2-ethylhexyl)phthalate	9.18	5.77	11.5	mg/kg	20	12/31/20 21:55	EPA 8270E	J
Butyl benzyl phthalate	ND	3.84	7.70	mg/kg	20	12/31/20 21:55	EPA 8270E	
Diethylphthalate	ND	3.84	7.70	mg/kg	20	12/31/20 21:55	EPA 8270E	
Dimethylphthalate	ND	3.84	7.70	mg/kg	20	12/31/20 21:55	EPA 8270E	
Di-n-butylphthalate	ND	3.84	7.70	mg/kg	20	12/31/20 21:55	EPA 8270E	
Di-n-octyl phthalate	ND	3.84	7.70	mg/kg	20	12/31/20 21:55	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery	y: 42 %	Limits: 37-122 %	20	12/31/20 21:55	EPA 8270E	
2-Fluorobiphenyl (Surr)			66 %	44-120 %		12/31/20 21:55	EPA 8270E	
Phenol-d6 (Surr)			64 %	33-122 %		12/31/20 21:55	EPA 8270E	
p-Terphenyl-d14 (Surr)			82 %	54-127 %		12/31/20 21:55	EPA 8270E	
2-Fluorophenol (Surr) 2,4,6-Tribromophenol (Surr)			59 % 139 %	35-120 % 39-132 %		12/31/20 21:55 12/31/20 21:55	EPA 8270E EPA 8270E	S-06

Apex Laboratories

Philip Merenberg

CB-5 (A0L0698-06RE1)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Batch: 0120994

Matrix: Solid

Philip Nerenberg, Lab Director

Page 41 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

Comm1-	Detection	Renorti			Date		
Result	Limit	Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
			Matrix: Solid		Batch:	0120994	
ND	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	
0.665	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	J
1.22	0.593	1.19	mg/kg	20	12/31/20 22:30	EPA 8270E	
1.40	0.593	1.19	mg/kg	20	12/31/20 22:30	EPA 8270E	M-05
0.954	0.593	1.19	mg/kg	20	12/31/20 22:30	EPA 8270E	J
0.628	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	J
1.29	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	
1.32	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	
0.647	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	J
ND	0.792	1.58	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	0.792	1.58	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	0.792	1.58	mg/kg	20	12/31/20 22:30	EPA 8270E	
0.649	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	J
1.43	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	0.593	1.19	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	0.394	0.792	mg/kg	20	12/31/20 22:30	EPA 8270E	
6.94	5.93	11.9	mg/kg	20	12/31/20 22:30	EPA 8270E	J
ND	3.94	7.92	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	3.94	7.92	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	3.94	7.92	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	3.94	7.92	mg/kg	20	12/31/20 22:30	EPA 8270E	
ND	3.94	7.92	mg/kg	20	12/31/20 22:30	EPA 8270E	
	Recove	ery: 57 %	Limits: 37-122 %	20	12/31/20 22:30	EPA 8270E	
		76 %	44-120 %		12/31/20 22:30	EPA 8270E	
		73 %			12/31/20 22:30	EPA 8270E	
		90 %			12/31/20 22:30	EPA 8270E	
							S-06
	ND ND ND 0.665 1.22 1.40 0.954 0.628 1.29 ND 1.32 ND 0.647 ND ND ND ND ND ND 0.649 1.43 ND	ND 0.394 ND 0.394 ND 0.394 ND 0.394 1.22 0.593 1.40 0.593 0.954 0.593 0.628 0.394 1.29 0.394 ND 0.394 ND 0.394 ND 0.394 ND 0.394 ND 0.792 ND 0.593 ND 0.394 1.43 0.394 ND 0.593 ND 0.593 ND 0.593 ND 0.394 6.94 5.93 ND 0.394 ND 3.94	Result Limit Limit ND 0.394 0.792 ND 0.394 0.792 ND 0.394 0.792 0.665 0.394 0.792 1.22 0.593 1.19 1.40 0.593 1.19 0.954 0.593 1.19 0.628 0.394 0.792 ND 0.792 1.58 ND 0.394 0.792 ND 0.394 0.792 ND 0.593 1.19 ND 0.394 0.792 ND 3.94 7.92 ND 3.94 7.92	ND	ND	Result Limit Units Dilution Analyzed Matrix: Solid Batch: ND 0.394 0.792 mg/kg 20 12/31/20 22:30 ND 0.394 0.792 mg/kg 20 12/31/20 22:30 ND 0.394 0.792 mg/kg 20 12/31/20 22:30 0.665 0.394 0.792 mg/kg 20 12/31/20 22:30 1.22 0.593 1.19 mg/kg 20 12/31/20 22:30 0.954 0.593 1.19 mg/kg 20 12/31/20 22:30 0.628 0.394 0.792 mg/kg 20 12/31/20 22:30 ND 0.394 0.792 mg/kg 20 12/31	ND

 CB-6 (A0L0698-07)
 Matrix: Solid
 Batch: 0120994

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 42 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Sen	nivolatile Org	anic Comp	ounds by EPA 8	2/0E			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-6 (A0L0698-07)				Matrix: Solic			0120994	
Acenaphthene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Acenaphthylene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Anthracene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Benz(a)anthracene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Benzo(a)pyrene	ND	0.531	1.06	mg/kg	40	12/30/20 23:21	EPA 8270E	
Benzo(b)fluoranthene	ND	0.531	1.06	mg/kg	40	12/30/20 23:21	EPA 8270E	
Benzo(k)fluoranthene	ND	0.531	1.06	mg/kg	40	12/30/20 23:21	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Chrysene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Fluoranthene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Fluorene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
1-Methylnaphthalene	ND	0.709	1.42	mg/kg	40	12/30/20 23:21	EPA 8270E	
2-Methylnaphthalene	ND	0.709	1.42	mg/kg	40	12/30/20 23:21	EPA 8270E	
Naphthalene	ND	0.709	1.42	mg/kg	40	12/30/20 23:21	EPA 8270E	
Phenanthrene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Pyrene	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Carbazole	ND	0.531	1.06	mg/kg	40	12/30/20 23:21	EPA 8270E	
Dibenzofuran	ND	0.353	0.709	mg/kg	40	12/30/20 23:21	EPA 8270E	
Bis(2-ethylhexyl)phthalate	13.6	5.31	10.6	mg/kg	40	12/30/20 23:21	EPA 8270E	
Butyl benzyl phthalate	ND	3.53	7.09	mg/kg	40	12/30/20 23:21	EPA 8270E	
Diethylphthalate	ND	3.53	7.09	mg/kg	40	12/30/20 23:21	EPA 8270E	
Dimethylphthalate	ND	3.53	7.09	mg/kg	40	12/30/20 23:21	EPA 8270E	
Di-n-butylphthalate	ND	3.53	7.09	mg/kg	40	12/30/20 23:21	EPA 8270E	
Di-n-octyl phthalate	ND	3.53	7.09	mg/kg	40	12/30/20 23:21	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Reco	very: 24 %	Limits: 37-122 %	40	12/30/20 23:21	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			47 %	44-120 %	40	12/30/20 23:21	EPA 8270E	S-05
Phenol-d6 (Surr)			48 %	33-122 %	40	12/30/20 23:21	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			62 %	54-127 %		12/30/20 23:21	EPA 8270E	S-05
2-Fluorophenol (Surr)			42 %	35-120 %		12/30/20 23:21	EPA 8270E	S-05
2,4,6-Tribromophenol (Surr)			102 %	39-132 %	40	12/30/20 23:21	EPA 8270E	S-05

CB-7 (A0L0698-08) Matrix: Solid Batch: 0120994

Apex Laboratories

Philip Manherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 43 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

	Sen	iivoiatile Org	anic Compo	ounds by EPA 8	oz/UE			
nalyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
(A0L0698-08)				Matrix: Solid	t	Batch:	0120994	
naphthene	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
naphthylene	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
nracene	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
z(a)anthracene	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
zo(a)pyrene	ND	0.517	1.03	mg/kg	40	12/30/20 23:56	EPA 8270E	
zo(b)fluoranthene	ND	0.517	1.03	mg/kg	40	12/30/20 23:56	EPA 8270E	
zo(k)fluoranthene	ND	0.517	1.03	mg/kg	40	12/30/20 23:56	EPA 8270E	
zo(g,h,i)perylene	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
/sene	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
enz(a,h)anthracene	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
ranthene	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
rene	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
no(1,2,3-cd)pyrene	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
ethylnaphthalene	ND	0.691	1.38	mg/kg	40	12/30/20 23:56	EPA 8270E	
ethylnaphthalene	ND	0.691	1.38	mg/kg	40	12/30/20 23:56	EPA 8270E	
hthalene	ND	0.691	1.38	mg/kg	40	12/30/20 23:56	EPA 8270E	
nanthrene	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
ne	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
pazole	ND	0.517	1.03	mg/kg	40	12/30/20 23:56	EPA 8270E	
enzofuran	ND	0.344	0.691	mg/kg	40	12/30/20 23:56	EPA 8270E	
2-ethylhexyl)phthalate	12.9	5.17	10.3	mg/kg	40	12/30/20 23:56	EPA 8270E	
l benzyl phthalate	ND	3.44	6.91	mg/kg	40	12/30/20 23:56	EPA 8270E	
hylphthalate	ND	3.44	6.91	mg/kg	40	12/30/20 23:56	EPA 8270E	
ethylphthalate	ND	3.44	6.91	mg/kg	40	12/30/20 23:56	EPA 8270E	
-butylphthalate	ND	3.44	6.91	mg/kg	40	12/30/20 23:56	EPA 8270E	
-octyl phthalate	ND	3.44	6.91	mg/kg	40	12/30/20 23:56	EPA 8270E	
urrogate: Nitrobenzene-d5 (Surr)		Reco	very: 14 %	Limits: 37-122 %	5 40	12/30/20 23:56	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			54 %	44-120 %	40	12/30/20 23:56	EPA 8270E	S-05
Phenol-d6 (Surr)			53 %	33-122 %	40	12/30/20 23:56	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			79 %	54-127 %		12/30/20 23:56	EPA 8270E	S-05
2-Fluorophenol (Surr)			45 %	35-120 %		12/30/20 23:56	EPA 8270E	S-05 S-05
2-Fluorophenol (Surr) 2,4,6-Tribromophenol (Surr)			45 % 110 %	35-120 % 39-132 %		12/30/20 23:56 12/30/20 23:56	EPA 8270E EPA 8270E	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 44 of 118





6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc.
9450 SW Commerce Circle

Wilsonville, OR 97070

Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

		Total Meta	als by EPA 60	20B (ICPMS	5)			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-1 (A0L0698-01)				Matrix: So	olid			
Batch: 1012474								
Antimony	0.956	0.503	1.01	mg/kg	10	01/04/21 15:50	EPA 6020B	J
Arsenic	1.59	0.503	1.01	mg/kg	10	01/04/21 15:50	EPA 6020B	
Beryllium	ND	0.101	0.201	mg/kg	10	01/04/21 15:50	EPA 6020B	
Cadmium	0.265	0.101	0.201	mg/kg	10	01/04/21 15:50	EPA 6020B	
Chromium	30.4	0.503	1.01	mg/kg	10	01/04/21 15:50	EPA 6020B	
Copper	41.0	1.01	2.01	mg/kg	10	01/04/21 15:50	EPA 6020B	
Lead	19.0	0.101	0.201	mg/kg	10	01/04/21 15:50	EPA 6020B	
Mercury	ND	0.0402	0.0805	mg/kg	10	01/04/21 15:50	EPA 6020B	
Nickel	13.8	1.01	2.01	mg/kg	10	01/04/21 15:50	EPA 6020B	
Selenium	ND	0.503	1.01	mg/kg	10	01/04/21 15:50	EPA 6020B	
Silver	ND	0.101	0.201	mg/kg	10	01/04/21 15:50	EPA 6020B	
Thallium	ND	0.101	0.201	mg/kg	10	01/04/21 15:50	EPA 6020B	
Zinc	224	2.01	4.02	mg/kg	10	01/04/21 15:50	EPA 6020B	
CB-2 (A0L0698-02)				Matrix: So	olid			
Batch: 1012474								
Antimony	1.07	0.501	1.00	mg/kg	10	01/04/21 15:55	EPA 6020B	
Arsenic	3.65	0.501	1.00	mg/kg	10	01/04/21 15:55	EPA 6020B	
Beryllium	ND	0.100	0.200	mg/kg	10	01/04/21 15:55	EPA 6020B	
Cadmium	1.18	0.100	0.200	mg/kg	10	01/04/21 15:55	EPA 6020B	
Chromium	27.6	0.501	1.00	mg/kg	10	01/04/21 15:55	EPA 6020B	
Copper	87.8	1.00	2.00	mg/kg	10	01/04/21 15:55	EPA 6020B	
Lead	29.0	0.100	0.200	mg/kg	10	01/04/21 15:55	EPA 6020B	
Mercury	ND	0.0401	0.0802	mg/kg	10	01/04/21 15:55	EPA 6020B	
Nickel	22.3	1.00	2.00	mg/kg	10	01/04/21 15:55	EPA 6020B	
Selenium	ND	0.501	1.00	mg/kg	10	01/04/21 15:55	EPA 6020B	
Silver	ND	0.100	0.200	mg/kg	10	01/04/21 15:55	EPA 6020B	
Thallium	ND	0.100	0.200	mg/kg	10	01/04/21 15:55	EPA 6020B	
Zinc	383	2.00	4.01	mg/kg	10	01/04/21 15:55	EPA 6020B	
CB-3 (A0L0698-03)				Matrix: So	olid			
Batch: 1012474								
Antimony	1.03	0.500	1.00	mg/kg	10	01/04/21 16:00	EPA 6020B	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Namberg



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

		Total Meta	ls by EPA 60	20B (ICPMS)			
Amalista	Sample	Detection Limit	Reporting	TT. 12	Dil e	Date	M-41. 179. C	NT ·
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
CB-3 (A0L0698-03)				Matrix: So	lid			
Arsenic	1.77	0.500	1.00	mg/kg	10	01/04/21 16:00	EPA 6020B	
Beryllium	ND	0.100	0.200	mg/kg	10	01/04/21 16:00	EPA 6020B	
Cadmium	0.239	0.100	0.200	mg/kg	10	01/04/21 16:00	EPA 6020B	
Chromium	29.5	0.500	1.00	mg/kg	10	01/04/21 16:00	EPA 6020B	
Copper	51.6	1.00	2.00	mg/kg	10	01/04/21 16:00	EPA 6020B	
Lead	46.9	0.100	0.200	mg/kg	10	01/04/21 16:00	EPA 6020B	
Mercury	0.0531	0.0400	0.0800	mg/kg	10	01/04/21 16:00	EPA 6020B	J
Nickel	12.0	1.00	2.00	mg/kg	10	01/04/21 16:00	EPA 6020B	
Selenium	ND	0.500	1.00	mg/kg	10	01/04/21 16:00	EPA 6020B	
Silver	0.148	0.100	0.200	mg/kg	10	01/04/21 16:00	EPA 6020B	J
Thallium	ND	0.100	0.200	mg/kg	10	01/04/21 16:00	EPA 6020B	
CB-3 (A0L0698-03RE1)				Matrix: So	lid			
Batch: 1012474								
Zinc	5860	10.0	20.0	mg/kg	50	01/05/21 12:58	EPA 6020B	
CB-4 (A0L0698-04)				Matrix: So	lid			
Batch: 1012474								
Antimony	2.48	0.547	1.09	mg/kg	10	01/04/21 16:05	EPA 6020B	Q-42
Arsenic	3.43	0.547	1.09	mg/kg	10	01/04/21 16:05	EPA 6020B	
Beryllium	ND	0.109	0.219	mg/kg	10	01/04/21 16:05	EPA 6020B	
Cadmium	2.24	0.109	0.219	mg/kg	10	01/04/21 16:05	EPA 6020B	
Chromium	276	0.547	1.09	mg/kg	10	01/04/21 16:05	EPA 6020B	Q-42
Copper	143	1.09	2.19	mg/kg	10	01/04/21 16:05	EPA 6020B	Q-42
Lead	63.9	0.109	0.219	mg/kg	10	01/04/21 16:05	EPA 6020B	
Mercury	0.375	0.0438	0.0875	mg/kg	10	01/04/21 16:05	EPA 6020B	
Nickel	32.2	1.09	2.19	mg/kg	10	01/04/21 16:05	EPA 6020B	
Selenium	ND	0.547	1.09	mg/kg	10	01/04/21 16:05	EPA 6020B	
Silver	0.223	0.109	0.219	mg/kg	10	01/04/21 16:05	EPA 6020B	
Thallium	ND	0.109	0.219	mg/kg	10	01/04/21 16:05	EPA 6020B	
Zinc	606	2.19	4.38	mg/kg	10	01/04/21 16:05	EPA 6020B	Q-42

CB-4_DUP (A0L0698-05)

Philip Merenberg

Apex Laboratories

Batch: 1012474

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Matrix: Solid

Philip Nerenberg, Lab Director

Page 46 of 118





6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

<u>GeoDesign, Inc.</u> 9450 SW Commerce Circle Wilsonville, OR 97070 Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

		Total Meta	ls by EPA 60	20B (ICPMS)			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-4_DUP (A0L0698-05)				Matrix: So	lid			
Antimony	2.71	0.532	1.06	mg/kg	10	01/04/21 16:37	EPA 6020B	
Arsenic	3.89	0.532	1.06	mg/kg	10	01/04/21 16:37	EPA 6020B	
Beryllium	ND	0.106	0.213	mg/kg	10	01/04/21 16:37	EPA 6020B	
Cadmium	2.49	0.106	0.213	mg/kg	10	01/04/21 16:37	EPA 6020B	
Chromium	146	0.532	1.06	mg/kg	10	01/04/21 16:37	EPA 6020B	
Copper	153	1.06	2.13	mg/kg	10	01/04/21 16:37	EPA 6020B	
Lead	67.5	0.106	0.213	mg/kg	10	01/04/21 16:37	EPA 6020B	
Mercury	0.416	0.0426	0.0851	mg/kg	10	01/04/21 16:37	EPA 6020B	
Nickel	33.8	1.06	2.13	mg/kg	10	01/04/21 16:37	EPA 6020B	
Selenium	ND	0.532	1.06	mg/kg	10	01/04/21 16:37	EPA 6020B	
Silver	0.333	0.106	0.213	mg/kg	10	01/04/21 16:37	EPA 6020B	
Thallium	ND	0.106	0.213	mg/kg	10	01/04/21 16:37	EPA 6020B	
Zinc	661	2.13	4.26	mg/kg	10	01/04/21 16:37	EPA 6020B	
CB-5 (A0L0698-06)				Matrix: So	lid			
Batch: 1012474								
Antimony	2.23	0.520	1.04	mg/kg	10	01/04/21 16:42	EPA 6020B	
Arsenic	1.78	0.520	1.04	mg/kg	10	01/04/21 16:42	EPA 6020B	
Beryllium	ND	0.104	0.208	mg/kg	10	01/04/21 16:42	EPA 6020B	
Cadmium	1.18	0.104	0.208	mg/kg	10	01/04/21 16:42	EPA 6020B	
Chromium	41.2	0.520	1.04	mg/kg	10	01/04/21 16:42	EPA 6020B	
Copper	107	1.04	2.08	mg/kg	10	01/04/21 16:42	EPA 6020B	
Lead	71.8	0.104	0.208	mg/kg	10	01/04/21 16:42	EPA 6020B	
Mercury	0.148	0.0416	0.0832	mg/kg	10	01/04/21 16:42	EPA 6020B	
Nickel	21.2	1.04	2.08	mg/kg	10	01/04/21 16:42	EPA 6020B	
Selenium	ND	0.520	1.04	mg/kg	10	01/04/21 16:42	EPA 6020B	
Silver	0.273	0.104	0.208	mg/kg	10	01/04/21 16:42	EPA 6020B	
Thallium	ND	0.104	0.208	mg/kg	10	01/04/21 16:42	EPA 6020B	
Zinc	1620	2.08	4.16	mg/kg	10	01/04/21 16:42	EPA 6020B	
CB-6 (A0L0698-07)				Matrix: So	lid			
Batch: 1012474								
Antimony	0.593	0.538	1.08	mg/kg	10	01/04/21 16:47	EPA 6020B	J
Arsenic	2.30	0.538	1.08	mg/kg	10	01/04/21 16:47	EPA 6020B	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

		Total Meta	als by EPA 60	20B (ICPMS)			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
CB-6 (A0L0698-07)				Matrix: So	lid			
Beryllium	ND	0.108	0.215	mg/kg	10	01/04/21 16:47	EPA 6020B	
Cadmium	1.24	0.108	0.215	mg/kg	10	01/04/21 16:47	EPA 6020B	
Chromium	16.7	0.538	1.08	mg/kg	10	01/04/21 16:47	EPA 6020B	
Copper	92.0	1.08	2.15	mg/kg	10	01/04/21 16:47	EPA 6020B	
Lead	30.8	0.108	0.215	mg/kg	10	01/04/21 16:47	EPA 6020B	
Mercury	0.0843	0.0430	0.0860	mg/kg	10	01/04/21 16:47	EPA 6020B	J
Nickel	17.5	1.08	2.15	mg/kg	10	01/04/21 16:47	EPA 6020B	
Selenium	ND	0.538	1.08	mg/kg	10	01/04/21 16:47	EPA 6020B	
Silver	0.183	0.108	0.215	mg/kg	10	01/04/21 16:47	EPA 6020B	J
Thallium	ND	0.108	0.215	mg/kg	10	01/04/21 16:47	EPA 6020B	
Zinc	253	2.15	4.30	mg/kg	10	01/04/21 16:47	EPA 6020B	
CB-7 (A0L0698-08)				Matrix: So	olid			
Batch: 1012474								
Antimony	1.28	0.519	1.04	mg/kg	10	01/04/21 16:53	EPA 6020B	
Arsenic	4.27	0.519	1.04	mg/kg	10	01/04/21 16:53	EPA 6020B	
Beryllium	ND	0.104	0.207	mg/kg	10	01/04/21 16:53	EPA 6020B	
Cadmium	1.15	0.104	0.207	mg/kg	10	01/04/21 16:53	EPA 6020B	
Chromium	34.4	0.519	1.04	mg/kg	10	01/04/21 16:53	EPA 6020B	
Copper	244	1.04	2.07	mg/kg	10	01/04/21 16:53	EPA 6020B	
Lead	24.0	0.104	0.207	mg/kg	10	01/04/21 16:53	EPA 6020B	
Mercury	0.197	0.0415	0.0830	mg/kg	10	01/04/21 16:53	EPA 6020B	
Nickel	62.9	1.04	2.07	mg/kg	10	01/04/21 16:53	EPA 6020B	
Selenium	ND	0.519	1.04	mg/kg	10	01/04/21 16:53	EPA 6020B	
Silver	0.175	0.104	0.207	mg/kg	10	01/04/21 16:53	EPA 6020B	J
Thallium	ND	0.104	0.207	mg/kg	10	01/04/21 16:53	EPA 6020B	
Zinc	1050	2.07	4.15	mg/kg	10	01/04/21 16:53	EPA 6020B	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 48 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. 9450 SW Commerce Circle Wilsonville, OR 97070 Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight								
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes				
CB-1 (A0L0698-01)				Matrix: So	olid	Batch:	EPA 8000D EPA 8000D EPA 8000D EPA 8000D EPA 8000D EPA 8000D					
% Solids	32.9	1.00	1.00	%	1	12/31/20 07:21	EPA 8000D					
CB-2 (A0L0698-02)				Matrix: So	olid	Batch:	0120974					
% Solids	72.0	1.00	1.00	%	1	12/31/20 07:21	EPA 8000D					
CB-3 (A0L0698-03)				Matrix: So	olid	Batch:	0120974					
% Solids	58.8	1.00	1.00	%	1	12/31/20 07:21	EPA 8000D					
CB-4 (A0L0698-04)				Matrix: S	olid	Batch:	Batch: 0120974					
% Solids	29.3	1.00	1.00	%	1	12/31/20 07:21	EPA 8000D					
CB-4_DUP (A0L0698-05)				Matrix: So	olid	Batch:	0120933					
% Solids	26.6	1.00	1.00	%	1	12/30/20 07:25	EPA 8000D					
CB-5 (A0L0698-06)				Matrix: So	olid	Batch:	0120974					
% Solids	32.4	1.00	1.00	%	1	12/31/20 07:21	EPA 8000D					
CB-6 (A0L0698-07)				Matrix: S	olid	Batch:	0120974					
% Solids	33.5	1.00	1.00	%	1	12/31/20 07:21 EPA 8000D						
CB-7 (A0L0698-08)				Matrix: So	olid	Batch:	Batch: 0120974					
% Solids	40.2	1.00	1.00	%	1	12/31/20 07:21	EPA 8000D					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 49 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/d	or Oil Hyd	rocarbor	s by NW1	TPH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120816 - EPA 3546 (F	uels)						Soli	id				
Blank (0120816-BLK1)			Prepared	d: 12/22/20 1	12:44 Ana	lyzed: 12/23	/20 02:31					
NWTPH-Dx												
Diesel	ND	9.09	25.0	mg/kg	1							
Oil	ND	18.2	50.0	mg/kg	1							
Surr: o-Terphenyl (Surr)		Reco	overy: 93 %	Limits: 50	-150 %	Dilı	ution: 1x					
LCS (0120816-BS1)			Prepared	d: 12/22/20 1	12:44 Ana	lyzed: 12/23	/20 02:51					
NWTPH-Dx												
Diesel	107	10.0	25.0	mg/kg	1	125		85	73-115%			
Surr: o-Terphenyl (Surr)		Reco	overy: 90 %	Limits: 50	-150 %	Dilı	ution: 1x					
Duplicate (0120816-DUP2)			Prepared	d: 12/22/20 1	12:44 Anal	yzed: 12/23	/20 12:10					
QC Source Sample: CB-1 (A0L0	698-01RE2)											
NWTPH-Dx												
Diesel	ND	49.8	99.6	mg/kg	5		ND				30%	
Oil	1830	99.6	199	mg/kg	5		1960			7	30%	
OII	1000											

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 50 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range F	lydrocarbo	ons (Ben	zene throu	igh Naph	thalene) l	by NWTF	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120837 - EPA 5035A							Soil					
Blank (0120837-BLK1)			Prepared	d: 12/22/20	09:00 Anal	yzed: 12/23	/20 01:24					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	1.67	3.33	mg/kg v	vet 50							
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 94 %	Limits: 5	0-150 %	Dilı	ution: 1x	<u> </u>				
1,4-Difluorobenzene (Sur)			94 %	5	0-150 %		"					
LCS (0120837-BS2)			Prepared	d: 12/22/20	09:00 Anal	yzed: 12/23	/20 00:57					
NWTPH-Gx (MS)												
Gasoline Range Organics	24.4	2.50	5.00	mg/kg v	vet 50	25.0		97	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 95 %	Limits: 5	0-150 %	Dilı	ution: 1x	<u> </u>				
1,4-Difluorobenzene (Sur)			95 %	5	0-150 %		"					
Duplicate (0120837-DUP1)			Prepared	d: 12/21/20	16:00 Anal	yzed: 12/23	/20 02:18					V-1:
QC Source Sample: Non-SDG (A0	L0795-01)											
Gasoline Range Organics	ND	3.24	6.48	mg/kg	dry 50		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Rece	overy: 96 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			95 %	5	0-150 %		"					
Duplicate (0120837-DUP2)			Prepared	d: 12/17/20	12:30 Anal	yzed: 12/23	/20 03:13					
QC Source Sample: CB-7 (A0L06	<u> </u>											
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	9.67	19.3	mg/kg	dry 50		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Recon	very: 130 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			97 %	5	0-150 %		"					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 51 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range H	lydrocarbo	ons (Ben	zene throu	ıgh Naphi	thalene) l	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120869 - EPA 5035A							Soil					
Blank (0120869-BLK1)			Prepared	d: 12/23/20	09:00 Anal	yzed: 12/23/	/20 14:26					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	1.67	3.33	mg/kg v	vet 50							
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 89 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			88 %	5	0-150 %		"					
LCS (0120869-BS2)			Prepared	d: 12/23/20	09:00 Anal	yzed: 12/23/	/20 13:59					
NWTPH-Gx (MS)												
Gasoline Range Organics	23.7	2.50	5.00	mg/kg v	vet 50	25.0		95	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 91 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			90 %	5	0-150 %		"					
Duplicate (0120869-DUP1)			Prepared	d: 12/17/20	10:10 Anal	yzed: 12/23/	/20 18:58					
QC Source Sample: CB-1 (A0L06	<u>98-01)</u>											
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	11.2	22.3	mg/kg d	lry 50		33.2			***	30%	Q-0
Surr: 4-Bromofluorobenzene (Sur)		Recor	very: 100 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			92 %	5	0-150 %		"					

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 52 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range F	lydrocarbo	ons (Ben	zene thro	ugh Naph	thalene)	by NWTF	PH-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120899 - EPA 5035A							Soil					
Blank (0120899-BLK1)			Prepared	d: 12/28/20	09:00 Ana	lyzed: 12/28	/20 12:05					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	1.67	3.33	mg/kg v	vet 50							
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 90 %	Limits: 5	0-150 %	Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			88 %	5	0-150 %		"					
LCS (0120899-BS2)			Prepare	d: 12/28/20	09:00 Ana	lyzed: 12/28	/20 11:38					
NWTPH-Gx (MS)												
Gasoline Range Organics	22.0	2.50	5.00	mg/kg v	vet 50	25.0		88	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 90 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			88 %	5	0-150 %		"					
Duplicate (0120899-DUP1)			Prepare	d: 12/21/20	12:41 Ana	lyzed: 12/28	/20 16:11					
QC Source Sample: Non-SDG (A0	L0839-05)											
Gasoline Range Organics	ND	3.39	6.79	mg/kg d	lry 50		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 93 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			87 %	5	0-150 %		"					
Duplicate (0120899-DUP2)			Prepared	d: 12/21/20	14:25 Ana	yzed: 12/28	/20 22:31					
QC Source Sample: Non-SDG (A0	L0888-02)											
Gasoline Range Organics	ND	4.64	9.29	mg/kg d	lry 50		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 86 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			83 %	5	0-150 %		"					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 53 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Dilution Analyte Result Limit Units Result % REC RPD Limit Amount Limits Limit Notes Batch 0120732 - EPA 5030B Water Blank (0120732-BLK1) Prepared: 12/19/20 20:00 Analyzed: 12/20/20 00:24 EPA 8260D ND 10.0 20.0 ug/L Acetone ND 1.00 2.00 Acrylonitrile ug/L 1 Benzene ND 0.100 0.200 ug/L 1 Bromobenzene ND 0.250 0.500 1 ug/L Bromochloromethane ND 0.500 1.00 ug/L 1 ND Bromodichloromethane 0.500 1.00 1 ug/L Bromoform ND 1.00 2.00 1 ug/L Bromomethane 5.00 5.00 ND ug/L 1 2-Butanone (MEK) ND 5.00 10.0 ug/L 1 n-Butylbenzene ND 0.500 1.00 1 ug/L sec-Butylbenzene ND 0.500 1.00 ug/L 1 ND 0.500 tert-Butylbenzene 1.00 1 ug/L Carbon disulfide ND 5.00 10.0 ug/L 1 Carbon tetrachloride ND 0.500 1.00 ug/L 1 Chlorobenzene ND 0.250 0.500 ug/L 1 Chloroethane ND 5.00 5.00 ug/L 1 ---------Chloroform ND 0.500 1.00 ug/L 1 ND 2.50 5.00 Chloromethane 1 ug/L 2-Chlorotoluene ND 0.500 1.00 ug/L 1 4-Chlorotoluene ND 0.500 1.00 ug/L 1 ND Dibromochloromethane 0.500 1.00 ug/L 1 1,2-Dibromo-3-chloropropane ND 2.50 5.00 ug/L 1 1,2-Dibromoethane (EDB) ND 0.500 1.00 ug/L 1 Dibromomethane ND 0.500 1.00 ug/L 1 0.500 0.250 1,2-Dichlorobenzene ND ug/L 1 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 1,4-Dichlorobenzene ND 0.250 0.500 ug/L 1 Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 1,1-Dichloroethane ND 0.200 0.400ug/L 1 0.200 1,2-Dichloroethane (EDC) ND 0.400 ug/L 1 1,1-Dichloroethene ND 0.200 0.400 ug/L 1 cis-1,2-Dichloroethene ND 0.200 0.400 ug/L 1 trans-1,2-Dichloroethene ND 0.200 0.400 ug/L 1

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 54 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Former Automatic Vending Co. Project:

9450 SW Commerce Circle Project Number: BCSAmerica-1-02 Report ID: Wilsonville, OR 97070 Project Manager: Kyle Haggart A0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120732 - EPA 5030B							Wat	er				
Blank (0120732-BLK1)			Prepared	: 12/19/20	20:00 Anal	yzed: 12/20/	/20 00:24					
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1							
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1							
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1							Q-30
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1							
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
Ethylbenzene	ND	0.250	0.500	ug/L	1							
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1							
2-Hexanone	ND	5.00	10.0	ug/L	1							
Isopropylbenzene	ND	0.500	1.00	ug/L	1							
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1							
Methylene chloride	ND	5.00	10.0	ug/L	1							
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1							
Naphthalene	ND	2.00	2.00	ug/L	1							Q-30
n-Propylbenzene	ND	0.250	0.500	ug/L	1							
Styrene	ND	0.500	1.00	ug/L	1							
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1							
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1							
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1							
Toluene	ND	0.500	1.00	ug/L	1							
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1							
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1							
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1							
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1							
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1							
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
Vinyl chloride	ND	0.200	0.400	ug/L	1							
m,p-Xylene	ND	0.500	1.00	ug/L	1							
o-Xylene	ND	0.250	0.500	ug/L	1							
Surr: 1,4-Difluorobenzene (Surr)			ery: 103 %	Limits: 80	0-120 %	Dilu	ıtion: 1x					

Surr: 1,4-Difluorobenzene (Surr) Recovery: 103 % Limits: 80-120 %

Apex Laboratories

Philip Nevenberg

 ${\it The results in this report apply to the samples analyzed in accordance with the chain of}$ custody document. This analytical report must be reproduced in its entirety.

Page 55 of 118 Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

		•	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120732 - EPA 5030B							Wat	er				
Blank (0120732-BLK1)			Prepared	1: 12/19/20	20:00 Anal	yzed: 12/20	/20 00:24					
Surr: Toluene-d8 (Surr)		Recov	very: 104 %	Limits: 80	0-120 %	Dilı	ution: 1x					
4-Bromofluorobenzene (Surr)			104 %	80	0-120 %		"					
LCS (0120732-BS1)			Prepared	l: 12/19/20	20:00 Anal	yzed: 12/19	/20 23:30					
EPA 8260D												
Acetone	42.4	10.0	20.0	ug/L	1	40.0		106	80-120%			
Acrylonitrile	22.2	1.00	2.00	ug/L	1	20.0		111	80-120%			
Benzene	20.5	0.100	0.200	ug/L	1	20.0		103	80-120%			
Bromobenzene	20.2	0.250	0.500	ug/L	1	20.0		101	80-120%			
Bromochloromethane	21.5	0.500	1.00	ug/L	1	20.0		108	80-120%			
Bromodichloromethane	21.0	0.500	1.00	ug/L	1	20.0		105	80-120%			
Bromoform	19.5	1.00	2.00	ug/L	1	20.0		98	80-120%			
Bromomethane	23.5	5.00	5.00	ug/L	1	20.0		118	80-120%			
2-Butanone (MEK)	43.0	5.00	10.0	ug/L	1	40.0		108	80-120%			
n-Butylbenzene	20.0	0.500	1.00	ug/L	1	20.0		100	80-120%			
sec-Butylbenzene	19.8	0.500	1.00	ug/L	1	20.0		99	80-120%			
tert-Butylbenzene	19.6	0.500	1.00	ug/L	1	20.0		98	80-120%			
Carbon disulfide	19.8	5.00	10.0	ug/L	1	20.0		99	80-120%			
Carbon tetrachloride	19.8	0.500	1.00	ug/L	1	20.0		99	80-120%			
Chlorobenzene	20.6	0.250	0.500	ug/L	1	20.0		103	80-120%			
Chloroethane	20.0	5.00	5.00	ug/L	1	20.0		100	80-120%			
Chloroform	21.7	0.500	1.00	ug/L	1	20.0		109	80-120%			
Chloromethane	26.7	2.50	5.00	ug/L	1	20.0		133	80-120%			Ç
2-Chlorotoluene	19.4	0.500	1.00	ug/L	1	20.0		97	80-120%			
4-Chlorotoluene	20.1	0.500	1.00	ug/L	1	20.0		101	80-120%			
Dibromochloromethane	20.8	0.500	1.00	ug/L	1	20.0		104	80-120%			
1,2-Dibromo-3-chloropropane	17.4	2.50	5.00	ug/L	1	20.0		87	80-120%			
1,2-Dibromoethane (EDB)	19.4	0.500	1.00	ug/L	1	20.0		97	80-120%			
Dibromomethane	22.2	0.500	1.00	ug/L	1	20.0		111	80-120%			
1,2-Dichlorobenzene	20.1	0.250	0.500	ug/L	1	20.0		100	80-120%			
1,3-Dichlorobenzene	20.2	0.250	0.500	ug/L	1	20.0		101	80-120%			
1,4-Dichlorobenzene	19.9	0.250	0.500	ug/L	1	20.0		99	80-120%			
Dichlorodifluoromethane	20.6	0.500	1.00	ug/L	1	20.0		103	80-120%			
1,1-Dichloroethane	21.2	0.200	0.400	ug/L	1	20.0		106	80-120%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120732 - EPA 5030B							Wat	er				
LCS (0120732-BS1)			Prepared	: 12/19/20	20:00 Ana	lyzed: 12/19/	/20 23:30					
1,2-Dichloroethane (EDC)	22.2	0.200	0.400	ug/L	1	20.0		111	80-120%			
1,1-Dichloroethene	21.7	0.200	0.400	ug/L	1	20.0		108	80-120%			
cis-1,2-Dichloroethene	20.8	0.200	0.400	ug/L	1	20.0		104	80-120%			
trans-1,2-Dichloroethene	21.3	0.200	0.400	ug/L	1	20.0		106	80-120%			
1,2-Dichloropropane	20.7	0.250	0.500	ug/L	1	20.0		103	80-120%			
1,3-Dichloropropane	21.5	0.500	1.00	ug/L	1	20.0		107	80-120%			
2,2-Dichloropropane	13.3	0.500	1.00	ug/L	1	20.0		67	80-120%			Q-30
1,1-Dichloropropene	19.7	0.500	1.00	ug/L	1	20.0		99	80-120%			
cis-1,3-Dichloropropene	17.9	0.500	1.00	ug/L	1	20.0		90	80-120%			
trans-1,3-Dichloropropene	19.4	0.500	1.00	ug/L	1	20.0		97	80-120%			
Ethylbenzene	19.7	0.250	0.500	ug/L	1	20.0		99	80-120%			
Hexachlorobutadiene	18.4	2.50	5.00	ug/L	1	20.0		92	80-120%			
2-Hexanone	41.1	5.00	10.0	ug/L	1	40.0		103	80-120%			
Isopropylbenzene	18.5	0.500	1.00	ug/L	1	20.0		92	80-120%			
4-Isopropyltoluene	19.3	0.500	1.00	ug/L	1	20.0		97	80-120%			
Methylene chloride	21.1	5.00	10.0	ug/L	1	20.0		106	80-120%			
4-Methyl-2-pentanone (MiBK)	40.7	5.00	10.0	ug/L	1	40.0		102	80-120%			
Methyl tert-butyl ether (MTBE)	17.2	0.500	1.00	ug/L	1	20.0		86	80-120%			
Naphthalene	12.7	2.00	2.00	ug/L	1	20.0		63	80-120%			Q-30
n-Propylbenzene	20.6	0.250	0.500	ug/L	1	20.0		103	80-120%			
Styrene	19.6	0.500	1.00	ug/L	1	20.0		98	80-120%			
1,1,1,2-Tetrachloroethane	21.5	0.200	0.400	ug/L	1	20.0		108	80-120%			
1,1,2,2-Tetrachloroethane	23.4	0.250	0.500	ug/L	1	20.0		117	80-120%			
Tetrachloroethene (PCE)	19.4	0.200	0.400	ug/L	1	20.0		97	80-120%			
Toluene	20.3	0.500	1.00	ug/L	1	20.0		101	80-120%			
1,2,3-Trichlorobenzene	18.7	1.00	2.00	ug/L	1	20.0		93	80-120%			
1,2,4-Trichlorobenzene	16.1	1.00	2.00	ug/L	1	20.0		80	80-120%			
1,1,1-Trichloroethane	19.4	0.200	0.400	ug/L	1	20.0		97	80-120%			
1,1,2-Trichloroethane	22.2	0.250	0.500	ug/L	1	20.0		111	80-120%			
Trichloroethene (TCE)	18.1	0.200	0.400	ug/L	1	20.0		91	80-120%			
Trichlorofluoromethane	28.6	1.00	2.00	ug/L	1	20.0		143	80-120%			Q-56
1,2,3-Trichloropropane	21.1	0.500	1.00	ug/L	1	20.0		105	80-120%			
1,2,4-Trimethylbenzene	20.3	0.500	1.00	ug/L	1	20.0		102	80-120%			
1,3,5-Trimethylbenzene	20.1	0.500	1.00	ug/L	1	20.0		100	80-120%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 57 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

		,	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120732 - EPA 5030B							Wat	er				
LCS (0120732-BS1)			Prepared	1: 12/19/20	20:00 Anal	lyzed: 12/19	/20 23:30					
Vinyl chloride	22.4	0.200	0.400	ug/L	1	20.0		112	80-120%			
n,p-Xylene	39.7	0.500	1.00	ug/L	1	40.0		99	80-120%			
o-Xylene	18.0	0.250	0.500	ug/L	1	20.0		90	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 99 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			93 %	80	0-120 %		"					
Duplicate (0120732-DUP1)			Prepared	1: 12/19/20	20:00 Anal	lyzed: 12/20	/20 10:50					
OC Source Sample: Non-SDG (A0	L0354-10)											
Acetone	ND	10.0	20.0	ug/L	1		ND				30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1		ND				30%	
Benzene	ND	0.100	0.200	ug/L	1		ND				30%	
Bromobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromoform	ND	1.00	2.00	ug/L	1		ND				30%	
Bromomethane	ND	5.00	5.00	ug/L	1		ND				30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1		ND				30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
ert-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1		ND				30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1		ND				30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Chloroethane	ND	5.00	5.00	ug/L	1		ND				30%	
Chloroform	ND	0.500	1.00	ug/L	1		ND				30%	
Chloromethane	ND	2.50	5.00	ug/L	1		ND				30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
1-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1		ND				30%	
1,2-Dibromoethane (EDB)	ND	0.500	1.00	ug/L	1		ND				30%	
Dibromomethane	ND	0.500	1.00	ug/L	1		ND				30%	
,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 58 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source Analyte Result Units Dilution % REC RPD Limit Limit Amount Result Limits Limit Notes Batch 0120732 - EPA 5030B Water **Duplicate (0120732-DUP1)** Prepared: 12/19/20 20:00 Analyzed: 12/20/20 10:50 QC Source Sample: Non-SDG (A0L0354-10) 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 ND 30% ND 0.250 0.500 1,4-Dichlorobenzene ug/L 1 ND 30% Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 ND 30% 1,1-Dichloroethane ND 0.200 0.400 ug/L 1 ND 30% 1,2-Dichloroethane (EDC) ND 0.200 0.400 1 ND 30% ug/L ---ND 0.200 ND 1,1-Dichloroethene 0.400 ug/L 1 30% cis-1,2-Dichloroethene 5.95 0.200 0.400ug/L 1 5.76 3 30% trans-1,2-Dichloroethene ND 30% 0.200 0.400 ug/L 1 ND 1,2-Dichloropropane ND 0.250 0.500 ug/L 1 ND 30% 1,3-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% 2,2-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% Q-30 ND 0.500 1.00 ND 30% 1,1-Dichloropropene ug/L 1 cis-1,3-Dichloropropene ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 ND 30% trans-1,3-Dichloropropene ug/L 1 0.250 Ethylbenzene ND 0.500 ug/L 1 ND 30% Hexachlorobutadiene ND 2.50 5.00 ug/L 1 ND 30% 2-Hexanone ND 5.00 10.0 ug/L 1 ND 30% ND 0.500 ND 30% Isopropylbenzene 1.00 1 ug/L ND 4-Isopropyltoluene 0.500 1.00 ug/L 1 ND 30% ND 10.0 Methylene chloride 5.00 ND 30% ug/L 1 4-Methyl-2-pentanone (MiBK) ND ND 5.00 10.0 ug/L 1 30% Methyl tert-butyl ether (MTBE) ND 0.500 1.00 ug/L 1 ND ---30% Naphthalene ND 2.00 2.00 ug/L 1 ND 30% Q-30 ND ND 30% n-Propylbenzene 0.250 0.500 ug/L 1 ND 0.500 1.00 ND 30% Styrene ug/L 1 ND 0.200 0.400 ND 30% 1.1.1.2-Tetrachloroethane ug/L 1 1,1,2,2-Tetrachloroethane ND 0.250 0.500 ND 30% ug/L 1 Tetrachloroethene (PCE) 1.78 0.200 0.400 ug/L 1 ---1.86 ---5 30% ND 0.500 1.00 ug/L 1 ND 30% 1,2,3-Trichlorobenzene ND 1.00 2.00 ND 30% ug/L 1 ---1,2,4-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 30% ND 0.200 0.400 ND 1,1,1-Trichloroethane 1 30% ug/L 1,1,2-Trichloroethane ND 0.250 0.500 ug/L 1 ND 30%

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 59 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

		•	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120732 - EPA 5030B							Wat	er				
Duplicate (0120732-DUP1)			Prepared	1: 12/19/20	20:00 Anal	yzed: 12/20/	/20 10:50					
QC Source Sample: Non-SDG (A0	L0354-10)											
Trichloroethene (TCE)	1.06	0.200	0.400	ug/L	1		1.11			5	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1		ND				30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1		ND				30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1		ND				30%	
o-Xylene	ND	0.250	0.500	ug/L	1		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 105 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			105 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			103 %	80	-120 %		"					
QC Source Sample: Non-SDG (A0 EPA 8260D	<u>L0560-01)</u>											
EPA 8260D												
Acetone	52.2	10.0	20.0	ug/L	1	40.0	ND	131	39-160%			
Acrylonitrile	23.4	1.00	2.00	ug/L	1	20.0	ND	117	63-135%			
Benzene	22.0	0.100	0.200	ug/L	1	20.0	ND	110	79-120%			
Bromobenzene	19.5	0.250	0.500	ug/L	1	20.0	ND	98	80-120%			
Bromochloromethane	22.1	0.500	1.00	ug/L	1	20.0	ND	111	78-123%			
Bromodichloromethane	21.9	0.500	1.00	ug/L	1	20.0	ND	110	79-125%			
Bromoform	18.6	1.00	2.00	ug/L	1	20.0	ND	93	66-130%			
Bromomethane	24.6	5.00	5.00	ug/L	1	20.0	ND	123	53-141%			
2-Butanone (MEK)	46.6	5.00	10.0	ug/L	1	40.0	ND	116	56-143%			
-Butylbenzene	20.3	0.500	1.00	ug/L	1	20.0	ND	101	75-128%			
ec-Butylbenzene	20.2	0.500	1.00	ug/L	1	20.0	ND	101	77-126%			
ert-Butylbenzene	20.3	0.500	1.00	ug/L	1	20.0	ND	101	78-124%			
Carbon disulfide	22.2	5.00	10.0	ug/L	1	20.0	ND	111	64-133%			
Carbon tetrachloride	22.8	0.500	1.00	ug/L	1	20.0	ND	114	72-136%			
Chlorobenzene	20.4	0.250	0.500	ug/L	1	20.0	ND		80-120%			
Chloroethane	20.7	5.00	5.00	ug/L	1	20.0	ND	103	60-138%			
Chloroform	23.5	0.500	1.00	ug/L	1	20.0	0.803	114	79-124%			
Chloromethane	28.8	2.50	5.00	ug/L	1	20.0	ND	144	50-139%			Q

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 60 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 0120732 - EPA 5030B Water Matrix Spike (0120732-MS1) Prepared: 12/19/20 20:00 Analyzed: 12/20/20 03:07 QC Source Sample: Non-SDG (A0L0560-01) 2-Chlorotoluene 19.1 0.500 1.00 ug/L 1 20.0 ND 95 79-122% 20.0 0.500 1.00 20.0 4-Chlorotoluene ug/L 1 ND 100 78-122% ug/L Dibromochloromethane 20.3 0.500 1.00 1 20.0 ND 101 74-126% 1,2-Dibromo-3-chloropropane 17.1 2.50 5.00 ug/L 1 20.0 ND 85 62-128% 1,2-Dibromoethane (EDB) 18.7 0.500 1.00 1 20.0 ND 93 77-121% ug/L Dibromomethane 22.6 1.00 20.0 ND 79-123% 0.500 ug/L 1 113 1,2-Dichlorobenzene 19.6 0.250 0.500 ug/L 1 20.0 ND 98 80-120% 99 19.8 0.500 20.0 ND 80-120% 1,3-Dichlorobenzene 0.250 ug/L 1 1,4-Dichlorobenzene 19.4 0.250 0.500 ug/L 1 20.0 ND 97 79-120% Dichlorodifluoromethane 24.0 0.500 1.00 ug/L 1 20.0 ND 120 32-152% 1,1-Dichloroethane 22.7 0.200 0.400 ug/L 1 20.0 ND 113 77-125% 1,2-Dichloroethane (EDC) 22.8 0.200 0.400 20.0 ND 114 73-128% ug/L 1 20.0 122 1,1-Dichloroethene 24.3 0.200 0.400 ug/L 1 ND 71-131% 20.0 22.1 0.200 0.400 ND 110 78-123% cis-1,2-Dichloroethene ug/L 1 ug/L trans-1,2-Dichloroethene 23.1 0.200 0.400 1 20.0 ND 115 75-124% 1,2-Dichloropropane 22.1 0.250 0.500 ug/L 1 20.0 ND 111 78-122% ___ 1,3-Dichloropropane 21.0 0.500 1.00 ug/L 1 20.0 ND 105 80-120% 12.6 0.500 20.0 ND 60-139% O - 302,2-Dichloropropane 1.00 1 63 ug/L 21.9 20.0 ND 79-125% 1,1-Dichloropropene 0.500 1.00 ug/L 1 110 0.500 1.00 20.0 cis-1,3-Dichloropropene 16.3 ND 81 75-124% ug/L 1 trans-1,3-Dichloropropene 0.500 20.0 ND 91 73-127% 18.3 1.00 ug/L 1 0.250 Ethylbenzene 20.2 0.500 ug/L 1 20.0 ND 101 79-121% Hexachlorobutadiene 18.8 2.50 5.00 ug/L 1 20.0 ND 94 66-134% 2-Hexanone 40.0 ND 104 57-139% 41.6 5.00 10.0 ug/L 1 19.3 0.500 1.00 20.0 ND 97 72-131% Isopropylbenzene ug/L 1 19.4 20.0 97 0.500 1.00 ND 77-127% 4-Isopropyltoluene ug/L 1 Methylene chloride 22.0 5.00 10.0 20.0 ND 110 74-124% ug/L 1 40.3 40.0 ND 67-130% 4-Methyl-2-pentanone (MiBK) 5.00 10.0 ug/L 1 101 Methyl tert-butyl ether (MTBE) 17.2 0.500 1.00 ug/L 1 20.0 ND 86 71-124% Naphthalene 12.3 2.00 2.00 1 20.0 ND 62 61-128% Q-30 ug/L --n-Propylbenzene 20.9 0.250 0.500 1 20.0 ND 105 76-126% ug/L 19.4 0.500 1.00 20.0 ND 97 Styrene 1 78-123% ug/L 1,1,1,2-Tetrachloroethane 21.3 0.200 0.400 ug/L 1 20.0 ND 107 78-124%

Apex Laboratories

Philip Manherz

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 61 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Dilution Analyte Result Limit Units % REC RPD Limit Amount Result Limits Limit Notes Batch 0120732 - EPA 5030B Water Matrix Spike (0120732-MS1) Prepared: 12/19/20 20:00 Analyzed: 12/20/20 03:07 QC Source Sample: Non-SDG (A0L0560-01) 20.0 1,1,2,2-Tetrachloroethane 22.6 0.250 0.500 ug/L 1 ND 113 71-121% 19.8 0.200 0.400 20.0 Tetrachloroethene (PCE) ug/L 1 ND 99 74-129% 20.0 80-121% Toluene 20.5 0.500 1.00 ug/L 1 ND 102 1,2,3-Trichlorobenzene 18.1 1.00 2.00 ug/L 1 20.0 ND 90 69-129% 1,2,4-Trichlorobenzene 15.7 1.00 2.00 ug/L 1 20.0 ND 79 69-130% 1,1,1-Trichloroethane 21.2 0.200 0.400 20.0 ND 106 74-131% ug/L 1 80-120% 1,1,2-Trichloroethane 21.2 0.250 0.500 ug/L 1 20.0 ND 106 Trichloroethene (TCE) 19.3 0.200 0.40020.0 ND 96 79-123% ug/L 1 20.0 Q-54b Trichlorofluoromethane 32.3 1.00 2.00 ug/L 1 ND 162 65-141% 1,2,3-Trichloropropane 20.1 0.500 1.00 ug/L 1 20.0 ND 101 73-122% 1,2,4-Trimethylbenzene 20.1 0.500 1.00 ug/L 1 20.0 ND 101 76-124% 1,3,5-Trimethylbenzene 20.1 0.500 1.00 20.0 ND 100 75-124% ug/L 1 25.5 0.200 20.0 ND 127 58-137% Vinyl chloride 0.400 ug/L 1 40.0 m,p-Xylene 40.8 0.500 1.00 ND 102 80-121% ug/L 1 0.250 0.500 78-122% o-Xylene 18.6 ug/L Surr: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 97 % 80-120 % 4-Bromofluorobenzene (Surr) 92 % 80-120 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 62 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 0120837 - EPA 5035A Soil Blank (0120837-BLK1) Prepared: 12/22/20 09:00 Analyzed: 12/23/20 01:24 5035A/8260D ND 0.667 0.667 mg/kg wet Acetone 0.0667 ND 0.0667 50 Acrylonitrile mg/kg wet Benzene ND 0.00333 0.00667mg/kg wet 50 Bromobenzene ND 0.00833 0.0167 mg/kg wet 50 Bromochloromethane ND 0.0167 0.0333 mg/kg wet 50 ND 0.0167 Bromodichloromethane 0.0333 mg/kg wet 50 Bromoform ND 0.0333 0.0667 mg/kg wet 50 Bromomethane 0.333 0.333 ND mg/kg wet 50 2-Butanone (MEK) ND 0.167 0.333 mg/kg wet 50 n-Butylbenzene ND 0.0167 0.0333 mg/kg wet 50 sec-Butylbenzene ND 0.0167 0.0333 mg/kg wet 50 ND 0.0167 0.0333 tert-Butylbenzene mg/kg wet 50 Carbon disulfide ND 0.167 0.333 mg/kg wet 50 Carbon tetrachloride ND 0.0167 0.0333 mg/kg wet 50 Chlorobenzene ND 0.00833 0.0167 mg/kg wet 50 Chloroethane ND 0.333 0.333 mg/kg wet 50 ------Chloroform ND 0.0167 0.0333 mg/kg wet 50 ND 0.0833 0.167 Chloromethane mg/kg wet 50 ---2-Chlorotoluene ND 0.0167 0.0333 mg/kg wet 50 4-Chlorotoluene ND 0.0167 0.0333 mg/kg wet 50 Dibromochloromethane ND 0.03330.0667 mg/kg wet 50 1,2-Dibromo-3-chloropropane ND 0.0833 0.167 mg/kg wet 50 0.0167 1,2-Dibromoethane (EDB) ND 0.0333 mg/kg wet 50 Dibromomethane ND 0.0167 0.0333 mg/kg wet 50 0.00833 1,2-Dichlorobenzene ND 0.0167 mg/kg wet 50 1,3-Dichlorobenzene ND 0.00833 0.0167 mg/kg wet 50 1,4-Dichlorobenzene ND 0.008330.0167 mg/kg wet 50 Dichlorodifluoromethane ND 0.0333 0.0667 mg/kg wet 50 ---1,1-Dichloroethane ND 0.0167 0.00833mg/kg wet 50 0.00833 1,2-Dichloroethane (EDC) ND 0.0167 mg/kg wet 50 1,1-Dichloroethene ND 0.00833 mg/kg wet 50 0.0167 cis-1,2-Dichloroethene ND 0.00833 0.0167 mg/kg wet 50 trans-1,2-Dichloroethene 0.00833 0.0167 ND mg/kg wet 50

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 63 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source Analyte Result Units Dilution % REC RPD Limit Limit Amount Result Limits Limit Notes Batch 0120837 - EPA 5035A Soil Blank (0120837-BLK1) Prepared: 12/22/20 09:00 Analyzed: 12/23/20 01:24 ND 0.00833 0.0167 mg/kg wet 50 1,2-Dichloropropane 1,3-Dichloropropane ND 0.0167 0.0333 mg/kg wet 50 ---------2,2-Dichloropropane ND 0.0167 0.0333 mg/kg wet 50 1,1-Dichloropropene ND 0.0167 0.0333 mg/kg wet 50 0.033350 ND 0.0167 mg/kg wet cis-1,3-Dichloropropene trans-1,3-Dichloropropene ND 0.0333 0.0667 mg/kg wet 50 0.00833 mg/kg wet Ethylbenzene ND 0.0167 50 0.0333 Hexachlorobutadiene ND 0.0667 mg/kg wet 50 0.167 0.333 2-Hexanone ND mg/kg wet 50 Isopropylbenzene ND 0.0167 0.0333mg/kg wet 50 ND 4-Isopropyltoluene 0.0167 0.0333 mg/kg wet 50 0.167 Methylene chloride ND 0.333 mg/kg wet 50 ND 0.333 4-Methyl-2-pentanone (MiBK) 0.167 mg/kg wet 50 0.0167 Methyl tert-butyl ether (MTBE) ND 0.0333 mg/kg wet 50 Naphthalene ND 0.0333 0.0667 mg/kg wet 50 n-Propylbenzene ND 0.00833 0.0167 mg/kg wet 50 ND 0.0167 0.0333 Styrene mg/kg wet 50 1,1,1,2-Tetrachloroethane ND 0.00833 mg/kg wet 0.0167 50 ND 1.1.2.2-Tetrachloroethane 0.0167 0.0333 mg/kg wet 50 ------0.0167 Tetrachloroethene (PCE) ND 0.00833 mg/kg wet 50 Toluene ND 0.0167 0.0333 mg/kg wet 50 1,2,3-Trichlorobenzene ND 0.0833 0.167 mg/kg wet 50 1,2,4-Trichlorobenzene ND 0.0833 0.167 mg/kg wet 50 1,1,1-Trichloroethane ND 0.00833 0.0167 mg/kg wet 50 ND 0.00833 1,1,2-Trichloroethane 0.0167 mg/kg wet 50 ------------Trichloroethene (TCE) ND 0.00833 0.0167 mg/kg wet 50 Trichlorofluoromethane ND 0.0333 0.0667 mg/kg wet 50 ---1,2,3-Trichloropropane ND 0.0167 0.0333 mg/kg wet 50 1,2,4-Trimethylbenzene ND 0.0167 0.0333 mg/kg wet 50 1,3,5-Trimethylbenzene ND 0.0167 0.0333mg/kg wet 50 Vinyl chloride ND 0.00833 0.0167 mg/kg wet 50 --m,p-Xylene ND 0.0167 0.0333 mg/kg wet 50

Apex Laboratories

Surr: 1,4-Difluorobenzene (Surr)

Philip Nevenberg

ND

0.00833

0.0167

Recovery: 106 %

mg/kg wet

Limits: 80-120 %

o-Xylene

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dilution: 1x

Philip Nerenberg, Lab Director

Page 64 of 118

50



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

			/olatile Or	ganic Con	npounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120837 - EPA 5035A							Soil					
Blank (0120837-BLK1)			Prepared	l: 12/22/20 0	9:00 Ana	lyzed: 12/23	/20 01:24					
Surr: Toluene-d8 (Surr)		Recov	ery: 101 %	Limits: 80-	120 %	Dilt	ution: 1x					
4-Bromofluorobenzene (Surr)			105 %	79-	120 %		"					
LCS (0120837-BS1)			Prepared	l: 12/22/20 0	9:00 Ana	lyzed: 12/23	/20 00:30					
5035A/8260D												
Acetone	1.58	1.00	1.00	mg/kg we	t 50	2.00		79	80-120%			Q-5
Acrylonitrile	0.748	0.100	0.100	mg/kg we	t 50	1.00		75	80-120%			Q-5
Benzene	1.10	0.00500	0.0100	mg/kg we	t 50	1.00		110	80-120%			
Bromobenzene	1.07	0.0125	0.0250	mg/kg we	t 50	1.00		107	80-120%			
Bromochloromethane	1.02	0.0250	0.0500	mg/kg we	t 50	1.00		102	80-120%			
Bromodichloromethane	1.00	0.0250	0.0500	mg/kg we	t 50	1.00		100	80-120%			
Bromoform	0.851	0.0500	0.100	mg/kg we	t 50	1.00		85	80-120%			
Bromomethane	1.05	0.500	0.500	mg/kg we	t 50	1.00		105	80-120%			
2-Butanone (MEK)	1.87	0.250	0.500	mg/kg we	t 50	2.00		94	80-120%			
n-Butylbenzene	1.10	0.0250	0.0500	mg/kg we	t 50	1.00		110	80-120%			
sec-Butylbenzene	1.10	0.0250	0.0500	mg/kg we	t 50	1.00		110	80-120%			
tert-Butylbenzene	1.06	0.0250	0.0500	mg/kg we	t 50	1.00		106	80-120%			
Carbon disulfide	1.04	0.250	0.500	mg/kg we	t 50	1.00		104	80-120%			
Carbon tetrachloride	1.06	0.0250	0.0500	mg/kg we	t 50	1.00		106	80-120%			
Chlorobenzene	1.02	0.0125	0.0250	mg/kg we	t 50	1.00		102	80-120%			
Chloroethane	0.778	0.500	0.500	mg/kg we	t 50	1.00		78	80-120%			Q-5
Chloroform	1.03	0.0250	0.0500	mg/kg we	t 50	1.00		103	80-120%			
Chloromethane	0.989	0.125	0.250	mg/kg we	t 50	1.00		99	80-120%			
2-Chlorotoluene	1.12	0.0250	0.0500	mg/kg we	t 50	1.00		112	80-120%			
4-Chlorotoluene	1.06	0.0250	0.0500	mg/kg we		1.00		106	80-120%			
Dibromochloromethane	0.972	0.0500	0.100	mg/kg we		1.00		97	80-120%			
1,2-Dibromo-3-chloropropane	0.892	0.125	0.250	mg/kg we	t 50	1.00		89	80-120%			
1,2-Dibromoethane (EDB)	1.06	0.0250	0.0500	mg/kg we		1.00		106	80-120%			
Dibromomethane	0.994	0.0250	0.0500	mg/kg we		1.00		99	80-120%			
1,2-Dichlorobenzene	1.07	0.0125	0.0250	mg/kg we		1.00		107	80-120%			
1,3-Dichlorobenzene	1.12	0.0125	0.0250	mg/kg we		1.00		112	80-120%			
1,4-Dichlorobenzene	1.00	0.0125	0.0250	mg/kg we		1.00		100	80-120%			
Dichlorodifluoromethane	0.977	0.0500	0.100	mg/kg we		1.00		98	80-120%			
1,1-Dichloroethane	1.06	0.0125	0.0250	mg/kg we		1.00		106	80-120%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 65 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 0120837 - EPA 5035A Soil LCS (0120837-BS1) Prepared: 12/22/20 09:00 Analyzed: 12/23/20 00:30 1,2-Dichloroethane (EDC) 0.929 0.0125 0.0250 mg/kg wet 50 1.00 93 80-120% 1,1-Dichloroethene 0.980 0.0125 0.0250 mg/kg wet 50 1.00 98 80-120% --------cis-1,2-Dichloroethene 1.04 0.0125 0.0250 mg/kg wet 50 1.00 104 80-120% trans-1,2-Dichloroethene 1.05 0.0125 0.0250 mg/kg wet 50 1.00 105 80-120% 1.03 0.0125 0.0250 mg/kg wet 50 1.00 103 80-120% 1,2-Dichloropropane 1,3-Dichloropropane 1.02 0.0250 0.0500 mg/kg wet 50 1.00 102 80-120% 0.0250 2,2-Dichloropropane 1.30 0.0500 mg/kg wet 50 1.00 130 80-120% O-56 1,1-Dichloropropene 1.10 0.0250 0.0500 mg/kg wet 50 1.00 110 80-120% 0.0250 0.0500 cis-1,3-Dichloropropene 1.09 mg/kg wet 50 1.00 109 80-120% trans-1,3-Dichloropropene 0.963 0.05000.100mg/kg wet 50 1.00 96 80-120% Ethylbenzene 1.06 0.0125 0.0250 mg/kg wet 50 1.00 106 80-120% 0.0500 Hexachlorobutadiene 1.10 0.100 mg/kg wet 50 1.00 110 80-120% 1.76 0.250 2.00 80-120% 2-Hexanone 0.500 mg/kg wet 50 ---88 ---Isopropylbenzene 0.970 0.0250 0.0500 mg/kg wet 50 1.00 97 80-120% 1.05 0.0250 0.0500 mg/kg wet 1.00 105 80-120% 4-Isopropyltoluene 50 Methylene chloride 0.962 0.250 0.500 mg/kg wet 50 1.00 96 80-120% 0.250 0.500 2.00 95 80-120% 4-Methyl-2-pentanone (MiBK) 1.89 mg/kg wet 50 Methyl tert-butyl ether (MTBE) 1.05 0.0250 0.0500 mg/kg wet 50 1.00 105 80-120% Naphthalene 0.960 0.0500 0.100 1.00 96 80-120% mg/kg wet 50 -----n-Propylbenzene 1.09 0.0125 0.0250 mg/kg wet 50 1.00 109 80-120% 0.926 0.0250 0.0500 1.00 93 80-120% Styrene mg/kg wet 50 1,1,1,2-Tetrachloroethane 1.01 0.0125 0.0250 mg/kg wet 50 1.00 101 80-120% 1,1,2,2-Tetrachloroethane 0.948 0.0250 0.0500 mg/kg wet 50 1.00 95 80-120% Tetrachloroethene (PCE) 1.12 0.0125 0.0250 mg/kg wet 50 1.00 112 80-120% 1.00 0.0250 1.00 100 80-120% Toluene 0.0500 mg/kg wet 50 ------1,2,3-Trichlorobenzene 1.06 0.125 0.250 mg/kg wet 50 1.00 106 80-120% 1,2,4-Trichlorobenzene 1.00 0.125 0.250 mg/kg wet 50 1.00 100 80-120% ------1,1,1-Trichloroethane 1.06 0.0125 0.0250 mg/kg wet 50 1.00 106 80-120% 1.1.2-Trichloroethane 1.04 0.0125 0.0250 mg/kg wet 50 1.00 104 80-120% Trichloroethene (TCE) 1.15 0.0125 0.0250 mg/kg wet 50 1.00 115 80-120% Trichlorofluoromethane 0.804 0.0500 0.100 50 1.00 80 80-120% mg/kg wet 1,2,3-Trichloropropane 0.970 0.0250 0.0500 mg/kg wet 50 1.00 97 80-120%

Apex Laboratories

Philip Nevenberg

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

1.05

1.09

0.0250

0.0250

0.0500

0.0500

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

105

109

80-120%

80-120%

Philip Nerenberg, Lab Director

Page 66 of 118

mg/kg wet

mg/kg wet

50

50

1.00

1.00



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Or	ganic Cor	npounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120837 - EPA 5035A							Soil					
LCS (0120837-BS1)			Prepared	l: 12/22/20 0	9:00 Ana	lyzed: 12/23	/20 00:30					
Vinyl chloride	1.02	0.0125	0.0250	mg/kg we	et 50	1.00		102	80-120%			
n,p-Xylene	1.93	0.0250	0.0500	mg/kg we	et 50	2.00		97	80-120%			
o-Xylene	0.936	0.0125	0.0250	mg/kg we	et 50	1.00		94	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 104 %	Limits: 80-	-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			99 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			102 %	79-	120 %		"					
Duplicate (0120837-DUP1)			Prepared	l: 12/21/20 1	6:00 Ana	lyzed: 12/23	/20 02:18					V-1
OC Source Sample: Non-SDG (A0	L0795-01)											
Acetone	ND	1.30	1.30	mg/kg dr	y 50		ND				30%	
Acrylonitrile	ND	0.130	0.130	mg/kg dr	y 50		ND				30%	
Benzene	ND	0.00648	0.0130	mg/kg dr	y 50		ND				30%	
Bromobenzene	ND	0.0162	0.0324	mg/kg dr	y 50		ND				30%	
Bromochloromethane	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
Bromodichloromethane	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
Bromoform	ND	0.0648	0.130	mg/kg dr	y 50		ND				30%	
Bromomethane	ND	0.648	0.648	mg/kg dr	y 50		ND				30%	
2-Butanone (MEK)	ND	0.324	0.648	mg/kg dr	y 50		ND				30%	
n-Butylbenzene	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
ec-Butylbenzene	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
ert-Butylbenzene	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
Carbon disulfide	ND	0.324	0.648	mg/kg dr	y 50		ND				30%	
Carbon tetrachloride	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
Chlorobenzene	ND	0.0162	0.0324	mg/kg dr	y 50		ND				30%	
Chloroethane	ND	0.648	0.648	mg/kg dr	y 50		ND				30%	
Chloroform	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
Chloromethane	ND	0.162	0.324	mg/kg dr	y 50		ND				30%	
2-Chlorotoluene	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
1-Chlorotoluene	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
Dibromochloromethane	ND	0.0648	0.130	mg/kg dr	y 50		ND				30%	
,2-Dibromo-3-chloropropane	ND	0.162	0.324	mg/kg dr	y 50		ND				30%	
1,2-Dibromoethane (EDB)	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
Dibromomethane	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
,2-Dichlorobenzene	ND	0.0162	0.0324	mg/kg dr	y 50		ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 67 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D RPD Detection Reporting Spike Source % REC Analyte Result Units Dilution % REC RPD Limit Limit Amount Result Limits Limit Notes Batch 0120837 - EPA 5035A Soil **Duplicate (0120837-DUP1)** Prepared: 12/21/20 16:00 Analyzed: 12/23/20 02:18 V-15 QC Source Sample: Non-SDG (A0L0795-01) 1,3-Dichlorobenzene ND 0.0162 0.0324 mg/kg dry 50 ND 30% 0.0324 ND 0.0162 1,4-Dichlorobenzene mg/kg dry 50 ND 30% Dichlorodifluoromethane ND 0.0648 0.130 mg/kg dry 50 ND 30% 1,1-Dichloroethane ND 0.0162 0.0324 mg/kg dry 50 ND 30% 1,2-Dichloroethane (EDC) ND 0.0162 0.0324 mg/kg dry 50 ND 30% ---ND 0.0162 1,1-Dichloroethene 0.0324 mg/kg dry 50 ND 30% cis-1,2-Dichloroethene ND 0.01620.0324mg/kg dry 50 ND 30% trans-1,2-Dichloroethene ND 0.0162 ND 30% 0.0324 mg/kg dry 50 1,2-Dichloropropane ND 0.0162 0.0324 mg/kg dry 50 ND 30% 1,3-Dichloropropane ND 0.0324 0.0648 mg/kg dry 50 ND 30% 2,2-Dichloropropane ND 0.0324 0.0648 mg/kg dry 50 ND 30% 0.0324 ND 0.064830% 1,1-Dichloropropene mg/kg dry 50 ND 0.0324 cis-1,3-Dichloropropene ND 0.0648 mg/kg dry 50 ND 30% ND 0.0648 0.130 ND 30% trans-1,3-Dichloropropene mg/kg dry 50 0.0162 Ethylbenzene ND 0.0324 mg/kg dry 50 ND 30% ND Hexachlorobutadiene 0.0648 0.130 mg/kg dry 50 ND 30% 2-Hexanone ND 0.324 0.648 mg/kg dry 50 ND 30% ND 0.0324 30% Isopropylbenzene 0.0648mg/kg dry 50 ND 0.0324 4-Isopropyltoluene ND 0.0648mg/kg dry 50 ND 30% ND 0.324 Methylene chloride 0.648 mg/kg dry 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.324 mg/kg dry ND 0.648 50 30% 0.0324 Methyl tert-butyl ether (MTBE) ND 0.0648 mg/kg dry 50 ND ---30% Naphthalene ND 0.0648 0.130 mg/kg dry 50 ND 30% ND 0.0162 ND 30% n-Propylbenzene 0.0324mg/kg dry 50 ND 0.0324 0.0648 30% Styrene mg/kg dry 50 ND ND 0.0162 0.0324 ND 30% 1.1.1.2-Tetrachloroethane mg/kg dry 50 1,1,2,2-Tetrachloroethane ND 0.0324 0.0648 mg/kg dry ND 30% 50 0.0162 Tetrachloroethene (PCE) ND 0.0324 mg/kg dry 50 ---ND ------30% Toluene ND 0.0324 0.0648 mg/kg dry 50 ND 30% ND 0.162 0.324 ND 30% 1,2,3-Trichlorobenzene mg/kg dry 50 ---1,2,4-Trichlorobenzene ND 0.162 0.324 mg/kg dry 50 ND 30% 0.0162 0.0324 50 1,1,1-Trichloroethane ND ND 30% mg/kg dry 1,1,2-Trichloroethane ND 0.01620.0324 mg/kg dry 50 ND 30%

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 68 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

			/olatile Or	ganic Cor	npounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120837 - EPA 5035A							Soil					
Duplicate (0120837-DUP1)			Prepared	1: 12/21/20 1	6:00 Anal	lyzed: 12/23	/20 02:18					V-15
QC Source Sample: Non-SDG (A0	L0795-01)											
Trichloroethene (TCE)	ND	0.0162	0.0324	mg/kg dr	y 50		ND				30%	
Trichlorofluoromethane	ND	0.0648	0.130	mg/kg dr	y 50		ND				30%	
1,2,3-Trichloropropane	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
1,2,4-Trimethylbenzene	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
1,3,5-Trimethylbenzene	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
Vinyl chloride	ND	0.0162	0.0324	mg/kg dr	y 50		ND				30%	
m,p-Xylene	ND	0.0324	0.0648	mg/kg dr	y 50		ND				30%	
o-Xylene	ND	0.0162	0.0324	mg/kg dr			ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 103 %	Limits: 80-	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			105 %	79-	120 %		"					
QC Source Sample: CB-7 (A0L06) 5035A/8260D	<u>98-08)</u>											
5035A/8260D												
Acetone	ND	3.87	3.87	mg/kg dr	y 50		ND				30%	
Acrylonitrile	ND	0.387	0.387	mg/kg dr	y 50		ND				30%	
Benzene	ND	0.0193	0.0387	mg/kg dr	y 50		ND				30%	
Bromobenzene	ND	0.0483	0.0967	mg/kg dr	y 50		ND				30%	
Bromochloromethane	ND	0.0967	0.193	mg/kg dr	y 50		ND				30%	
Bromodichloromethane	ND	0.0967	0.193	mg/kg dr	y 50		ND				30%	
Bromoform	ND	0.193	0.387	mg/kg dr	y 50		ND				30%	
Bromomethane	ND	1.93	1.93	mg/kg dr	y 50		ND				30%	
2-Butanone (MEK)	ND	0.967	1.93	mg/kg dr	y 50		ND				30%	
n-Butylbenzene	ND	0.0967	0.193	mg/kg dr	y 50		ND				30%	
sec-Butylbenzene	ND	0.0967	0.193	mg/kg dr	y 50		ND				30%	
ert-Butylbenzene	ND	0.0967	0.193	mg/kg dr	y 50		ND				30%	
Carbon disulfide	ND	0.967	1.93	mg/kg dr	y 50		ND				30%	
Carbon tetrachloride	ND	0.0967	0.193	mg/kg dr	y 50		ND				30%	
Chlorobenzene	ND	0.0483	0.0967	mg/kg dr	y 50		ND				30%	
Chloroethane	ND	1.93	1.93	mg/kg dr	y 50		ND				30%	
Chloroform	ND	0.0967	0.193	mg/kg dr	y 50		ND				30%	
Chloromethane	ND	0.483	0.967	mg/kg dr			ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 69 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 0120837 - EPA 5035A Soil **Duplicate (0120837-DUP2)** Prepared: 12/17/20 12:30 Analyzed: 12/23/20 03:13 QC Source Sample: CB-7 (A0L0698-08) 2-Chlorotoluene ND 0.0967 0.193 mg/kg dry 50 ND 30% 30% ND 0.0967 0.193 4-Chlorotoluene mg/kg dry 50 ND Dibromochloromethane ND 0.193 0.387 mg/kg dry 50 ND 30% 1,2-Dibromo-3-chloropropane ND 0.4830.967 mg/kg dry 50 ND 30% 1,2-Dibromoethane (EDB) ND 0.0967 0.193 mg/kg dry 50 ND 30% ---Dibromomethane ND 0.0967 0.193 ND 30% mg/kg dry 50 1,2-Dichlorobenzene ND 0.04830.0967 mg/kg dry 50 ND 30% ND 0.0483 ND 30% 1.3-Dichlorobenzene 0.0967 mg/kg dry 50 1,4-Dichlorobenzene ND 0.0483 0.0967 mg/kg dry 50 ND 30% Dichlorodifluoromethane ND 0.193 0.387 mg/kg dry 50 ND 30% 1,1-Dichloroethane ND 0.0483 0.0967 mg/kg dry 50 ND 30% 0.0483 50 1,2-Dichloroethane (EDC) ND 0.0967 mg/kg dry ND 30% 0.0483 1,1-Dichloroethene ND 0.0967 mg/kg dry 50 ND 30% cis-1,2-Dichloroethene ND 0.0483 0.0967 ND 30% mg/kg dry 50 0.0483 trans-1,2-Dichloroethene ND 0.0967 mg/kg dry 50 ND 30% 1,2-Dichloropropane ND 0.0483 0.0967 mg/kg dry 50 ND 30% 1,3-Dichloropropane ND 0.0967 0.193 mg/kg dry 50 ND 30% ND ND 30% 2,2-Dichloropropane 0.0967 0.193 mg/kg dry 50 ND 1,1-Dichloropropene 0.0967 0.193 mg/kg dry 50 ND 30% 0.0967 0.193 cis-1,3-Dichloropropene ND mg/kg dry 50 ND 30% trans-1,3-Dichloropropene ND 0.193 0.387 mg/kg dry ND 50 30% Ethylbenzene ND 0.0483 0.0967 mg/kg dry 50 ND ---30% Hexachlorobutadiene ND 0.193 0.387 mg/kg dry 50 ND 30% 2-Hexanone ND 0.967 ND 30% 1.93 mg/kg dry 50 ND 0.0967 0.193 ND 30% Isopropylbenzene mg/kg dry 50 ND 30% 0.0967 0.193 ND 4-Isopropyltoluene mg/kg dry 50 Methylene chloride ND 0.967 1.93 mg/kg dry ND 30% 50 30% 4-Methyl-2-pentanone (MiBK) ND 0.967 1.93 mg/kg dry 50 ---ND ---Methyl tert-butyl ether (MTBE) ND 0.0967 0.193 mg/kg dry 50 ND 30% Naphthalene 0.197 0.193 0.387 ND 30% mg/kg dry 50 n-Propylbenzene ND 0.0483 0.0967 mg/kg dry 50 ND 30% 0.0967 0.193 ND Styrene ND 50 30% mg/kg dry 1,1,1,2-Tetrachloroethane ND 0.0483 0.0967 mg/kg dry 50 ND 30%

Apex Laboratories

Philip Manherz

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 70 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

		1	/olatile Or	ganic Cor	npounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120837 - EPA 5035A							Soil					
Duplicate (0120837-DUP2)			Prepared	l: 12/17/20 1	2:30 Ana	lyzed: 12/23	/20 03:13					
QC Source Sample: CB-7 (A0L06	98-08)											
1,1,2,2-Tetrachloroethane	ND	0.0967	0.193	mg/kg dr	y 50		ND				30%	
Tetrachloroethene (PCE)	ND	0.0483	0.0967	mg/kg dr	y 50		ND				30%	
Toluene	ND	0.0967	0.193	mg/kg dr	y 50		0.151			***	30%	Q-0
1,2,3-Trichlorobenzene	ND	0.483	0.967	mg/kg dr	y 50		ND				30%	
1,2,4-Trichlorobenzene	ND	0.483	0.967	mg/kg dr	y 50		ND				30%	
1,1,1-Trichloroethane	ND	0.0483	0.0967	mg/kg dr	y 50		ND				30%	
1,1,2-Trichloroethane	ND	0.0483	0.0967	mg/kg dr	y 50		ND				30%	
Trichloroethene (TCE)	ND	0.0483	0.0967	mg/kg dr	y 50		ND				30%	
Trichlorofluoromethane	ND	0.193	0.387	mg/kg dr	y 50		ND				30%	
1,2,3-Trichloropropane	ND	0.0967	0.193	mg/kg dr	y 50		ND				30%	
1,2,4-Trimethylbenzene	0.199	0.0967	0.193	mg/kg dr	y 50		0.122			48	30%	Q-0
1,3,5-Trimethylbenzene	0.116	0.0967	0.193	mg/kg dr	y 50		ND				30%	Q-05,
Vinyl chloride	ND	0.0483	0.0967	mg/kg dr	y 50		ND				30%	
m,p-Xylene	0.137	0.0967	0.193	mg/kg dr	y 50		ND				30%	Q-05,
o-Xylene	0.0793	0.0483	0.0967	mg/kg dr	y 50		ND				30%	Q-05,
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 104 %	Limits: 80	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %		120 %		"					
4-Bromofluorobenzene (Surr)			112 %	79-	-120 %		"					
Matrix Spike (0120837-MS1)			Prepared	l: 12/18/20 1	9:17 Ana	lyzed: 12/23	/20 06:22					V-15
QC Source Sample: Non-SDG (A0	L0742-06)		<u>-</u>									
5035A/8260D												
Acetone	2.20	1.13	1.13	mg/kg dr	y 50	2.25	ND	98	36-164%			Q-54
Acrylonitrile	0.947	0.113	0.113	mg/kg dr	y 50	1.12	ND	84	65-134%			Q-54
Benzene	1.12	0.00563	0.0113	mg/kg dr		1.12	ND	100	77-121%			
Bromobenzene	1.18	0.0141	0.0281	mg/kg dr	y 50	1.12	ND	105	78-121%			
Bromochloromethane	1.12	0.0281	0.0563	mg/kg dr	•	1.12	ND	99	78-125%			
Bromodichloromethane	1.13	0.0281	0.0563	mg/kg dr	•	1.12	ND	101	75-127%			
Bromoform	1.05	0.0563	0.113	mg/kg dr	y 50	1.12	ND	93	67-132%			
Bromomethane	1.18	0.563	0.563	mg/kg dr	•	1.12	ND	105	53-143%			
2-Butanone (MEK)	1.92	0.281	0.563	mg/kg dr	•	2.25	ND	86	51-148%			
n-Butylbenzene	1.12	0.0281	0.0563	mg/kg dr	•	1.12	ND	100	70-128%			
sec-Butylbenzene	1.15	0.0281	0.0563	mg/kg dr	•	1.12	ND	102	73-126%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D RPD Detection Reporting Spike Source % REC Analyte Result Units Dilution % REC RPD Limit Limit Amount Result Limits Limit Notes Batch 0120837 - EPA 5035A Soil Matrix Spike (0120837-MS1) Prepared: 12/18/20 19:17 Analyzed: 12/23/20 06:22 V-15 QC Source Sample: Non-SDG (A0L0742-06) mg/kg dry tert-Butylbenzene 1.17 0.0281 0.0563 50 1.12 ND 104 73-125% 0.281 0.563 Carbon disulfide 1.10 mg/kg dry 50 1.12 ND 98 63-132% Carbon tetrachloride 1.23 0.0281 0.0563 mg/kg dry 50 1.12 ND 110 70-135% Chlorobenzene 1.12 0.0141 0.0281 mg/kg dry 50 1.12 ND 100 79-120% Chloroethane 1.01 0.563 0.563 mg/kg dry 50 1.12 ND 90 59-139% Q-54j ---0.0281 1.12 ND 102 78-123% Chloroform 1.14 0.0563 mg/kg dry 50 Chloromethane 0.987 0.141 0.281 mg/kg dry 50 1.12 ND 88 50-136% 2-Chlorotoluene 0.0281 1.12 ND 104 75-122% 1.17 0.0563 mg/kg dry 50 4-Chlorotoluene 1.16 0.0281 0.0563 mg/kg dry 50 1.12 ND 103 72-124% Dibromochloromethane 1.14 0.0563 0.113 mg/kg dry 50 1.12 ND 102 74-126% 1,2-Dibromo-3-chloropropane 1.01 0.141 0.281 mg/kg dry 50 1.12 ND 90 61-132% 0.0281 50 1,2-Dibromoethane (EDB) 1.17 0.0563 1.12 ND 104 78-122% mg/kg dry 78-125% Dibromomethane 1.10 0.0281 0.0563 mg/kg dry 50 1.12 ND 98 1.17 0.0141 0.0281 1.12 ND 105 78-121% 1,2-Dichlorobenzene mg/kg dry 50 0.0141 1,3-Dichlorobenzene 1.23 0.0281 mg/kg dry 50 1.12 ND 109 77-121% 1.4-Dichlorobenzene 1.12 0.0141 0.0281 mg/kg dry 50 1.12 ND 99 75-120% ___ Dichlorodifluoromethane 1.09 0.0563 0.113 mg/kg dry 50 1.12 ND 97 29-149% 1,1-Dichloroethane 0.0141 1.12 ND 101 76-125% 1.13 0.0281 mg/kg dry 50 0.0141 1.12 73-128% 1,2-Dichloroethane (EDC) 1.11 0.0281 mg/kg dry 50 ND 99 0.0141 0.0281 1,1-Dichloroethene 1.08 mg/kg dry 50 1.12 ND 96 70-131% 1.13 0.0141 mg/kg dry 1.12 ND 101 77-123% cis-1,2-Dichloroethene 0.0281 50 0.0141 trans-1,2-Dichloroethene 1.12 0.0281 mg/kg dry 50 1.12 ND 100 74-125% 1,2-Dichloropropane 1.06 0.0141 0.0281 mg/kg dry 50 1.12 ND 95 76-123% 0.0281 1.12 ND 101 77-121% 1,3-Dichloropropane 1.14 0.0563 mg/kg dry 50 ---0.0281 0.0563 1.12 99 67-133% Q-54 2,2-Dichloropropane 1.11 mg/kg dry 50 ND 1.15 0.0281 0.0563 1.12 ND 102 76-125% 1,1-Dichloropropene mg/kg dry 50 cis-1,3-Dichloropropene 1.13 0.0281 0.0563 mg/kg dry 1.12 ND 100 74-126% 50 1.05 0.0563 71-130% trans-1,3-Dichloropropene 0.113 mg/kg dry 50 1.12 ND 93 Ethylbenzene 1.18 0.0141 0.0281 mg/kg dry 50 1.12 ND 105 76-122% Hexachlorobutadiene 1.16 0.0563 0.113 1.12 ND 103 61-135% mg/kg dry 50 2-Hexanone 1.96 0.281 0.563 mg/kg dry 50 2.25 ND 87 53-145% Isopropylbenzene 0.0281 97 1.09 0.0563 50 1.12 ND 68-134% mg/kg dry ---4-Isopropyltoluene 1.11 0.0281 0.0563 mg/kg dry 50 1.12 ND 99 73-127%

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 72 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source % REC Analyte Result Limit Units Dilution RPD Limit Amount Result Limits Limit Notes Batch 0120837 - EPA 5035A Soil Matrix Spike (0120837-MS1) Prepared: 12/18/20 19:17 Analyzed: 12/23/20 06:22 V-15 QC Source Sample: Non-SDG (A0L0742-06) Methylene chloride 1.04 0.281 0.563 mg/kg dry 50 1.12 ND 92 70-128% 0.281 0.563 2.25 4-Methyl-2-pentanone (MiBK) 2.11 mg/kg dry 50 ND 94 65-135% Methyl tert-butyl ether (MTBE) 1.15 0.0281 0.0563 mg/kg dry 50 1.12 ND 102 73-125% Naphthalene 1.01 0.0563 0.113 mg/kg dry 50 1.12 ND 90 62-129% 1.14 0.0141 0.0281 mg/kg dry 50 1.12 ND 101 73-125% n-Propylbenzene 1.04 0.0281 1.12 ND 92 76-124% Styrene 0.0563 mg/kg dry 50 1,1,1,2-Tetrachloroethane 1.20 0.0141 0.0281 mg/kg dry 50 1.12 ND 107 78-125% 1,1,2,2-Tetrachloroethane 1.03 0.0281 1.12 ND 92 70-124% 0.0563 mg/kg dry 50 Tetrachloroethene (PCE) 1.21 0.0141 0.0281 mg/kg dry 50 1.12 ND 108 73-128% Toluene 1.08 0.0281 0.0563 mg/kg dry 50 1.12 ND 96 77-121% 1,2,3-Trichlorobenzene 1.20 0.141 0.281 mg/kg dry 50 1.12 ND 107 66-130% 0.141 50 1,2,4-Trichlorobenzene 1.08 0.281 mg/kg dry 1.12 ND 67-129% 96 0.0141 107 73-130% 1,1,1-Trichloroethane 1.21 0.0281 mg/kg dry 50 1.12 ND 0.0141 1.12 1,1,2-Trichloroethane 1.14 0.0281 mg/kg dry ND 101 78-121% 50 0.0141 Trichloroethene (TCE) 1.22 0.0281 mg/kg dry 50 1.12 ND 108 77-123% Trichlorofluoromethane 1.34 0.0563 0.113 mg/kg dry 50 1.12 ND 119 62-140% ___ 1,2,3-Trichloropropane 1.12 0.0281 0.0563 mg/kg dry 50 1.12 ND 99 73-125% 0.0281 0.0563 1.12 ND 99 75-123% 1,2,4-Trimethylbenzene 1.11 mg/kg dry 50 1,3,5-Trimethylbenzene 1.17 0.0281 1.12 ND 104 73-124% 0.0563 mg/kg dry 50 0.0141 0.0281 Vinyl chloride 1.05 mg/kg dry 50 1.12 ND 94 56-135% m,p-Xylene 2.17 0.0281 0.0563 mg/kg dry 2.25 ND 97 77-124% 50 0.0141 o-Xylene 1.06 0.0281 mg/kg dry 50 1.12 ND 94 77-123% 99% Surr: 1,4-Difluorobenzene (Surr) Limits: 80-120 % Dilution: 1x Recovery: Toluene-d8 (Surr) 98 % 80-120 % 99 % 4-Bromofluorobenzene (Surr) 79-120 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 73 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 0120869 - EPA 5035A Soil Blank (0120869-BLK1) Prepared: 12/23/20 09:00 Analyzed: 12/23/20 14:26 5035A/8260D ND 0.333 0.667 mg/kg wet Acetone 0.0667 ND 0.0333 50 Acrylonitrile mg/kg wet Benzene ND 0.00333 0.00667mg/kg wet 50 Bromobenzene ND 0.00833 0.0167 mg/kg wet 50 Bromochloromethane ND 0.0167 0.0333 mg/kg wet 50 ND 0.0167 Bromodichloromethane 0.0333 mg/kg wet 50 Bromoform ND 0.0333 0.0667 mg/kg wet 50 Bromomethane 0.333 0.333 ND mg/kg wet 50 2-Butanone (MEK) ND 0.167 0.333 mg/kg wet 50 n-Butylbenzene ND 0.0167 0.0333 mg/kg wet 50 sec-Butylbenzene ND 0.0167 0.0333 mg/kg wet 50 ND 0.0167 0.0333 tert-Butylbenzene mg/kg wet 50 Carbon disulfide ND 0.167 0.333 mg/kg wet 50 Carbon tetrachloride ND 0.0167 0.0333 mg/kg wet 50 Chlorobenzene ND 0.00833 0.0167 mg/kg wet 50 Chloroethane ND 0.333 0.333 mg/kg wet 50 ------Chloroform ND 0.0167 0.0333 mg/kg wet 50 ND 0.0833 0.167 Chloromethane mg/kg wet 50 2-Chlorotoluene ND 0.0167 0.0333 mg/kg wet 50 4-Chlorotoluene ND 0.0167 0.0333 mg/kg wet 50 Dibromochloromethane ND 0.03330.0667 mg/kg wet 50 1,2-Dibromo-3-chloropropane ND 0.0833 0.167 mg/kg wet 50 0.0167 1,2-Dibromoethane (EDB) ND 0.0333 mg/kg wet 50 Dibromomethane ND 0.0167 0.0333 mg/kg wet 50 0.00833 1,2-Dichlorobenzene ND 0.0167 mg/kg wet 50 1,3-Dichlorobenzene ND 0.00833 0.0167 mg/kg wet 50 1,4-Dichlorobenzene ND 0.008330.0167 mg/kg wet 50 Dichlorodifluoromethane ND 0.0333 0.0667 mg/kg wet 50 ---1,1-Dichloroethane ND 0.008330.0167 mg/kg wet 50 0.00833 1,2-Dichloroethane (EDC) ND 0.0167 mg/kg wet 50 1,1-Dichloroethene ND 0.00833 mg/kg wet 50 0.0167 cis-1,2-Dichloroethene ND 0.00833 0.0167 mg/kg wet 50 trans-1,2-Dichloroethene ND 0.00833 0.0167 mg/kg wet 50

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 74 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS Volatile Organic Compounds by EPA 8260D

Detection Reporting Spike Source % REC **RPD** Dilution % REC Analyte Result Ĺimit Units Amount Result Limits RPD Limit Notes Limit

Batch 0120869 - EPA 5035A							Soil			
Blank (0120869-BLK1)			Prepared	: 12/23/20 09:0	00 Anal	yzed: 12/23/	/20 14:26			
1,2-Dichloropropane	ND	0.00833	0.0167	mg/kg wet	50			 	 	
1,3-Dichloropropane	ND	0.0167	0.0333	mg/kg wet	50			 	 	
2,2-Dichloropropane	ND	0.0167	0.0333	mg/kg wet	50			 	 	
1,1-Dichloropropene	ND	0.0167	0.0333	mg/kg wet	50			 	 	
cis-1,3-Dichloropropene	ND	0.0167	0.0333	mg/kg wet	50			 	 	
trans-1,3-Dichloropropene	ND	0.0333	0.0667	mg/kg wet	50			 	 	
Ethylbenzene	ND	0.00833	0.0167	mg/kg wet	50			 	 	
Hexachlorobutadiene	ND	0.0333	0.0667	mg/kg wet	50			 	 	
2-Hexanone	ND	0.167	0.333	mg/kg wet	50			 	 	
Isopropylbenzene	ND	0.0167	0.0333	mg/kg wet	50			 	 	
4-Isopropyltoluene	ND	0.0167	0.0333	mg/kg wet	50			 	 	
Methylene chloride	ND	0.167	0.333	mg/kg wet	50			 	 	
4-Methyl-2-pentanone (MiBK)	ND	0.167	0.333	mg/kg wet	50			 	 	
Methyl tert-butyl ether (MTBE)	ND	0.0167	0.0333	mg/kg wet	50			 	 	
Naphthalene	ND	0.0333	0.0667	mg/kg wet	50			 	 	
n-Propylbenzene	ND	0.00833	0.0167	mg/kg wet	50			 	 	
Styrene	ND	0.0167	0.0333	mg/kg wet	50			 	 	
1,1,1,2-Tetrachloroethane	ND	0.00833	0.0167	mg/kg wet	50			 	 	
1,1,2,2-Tetrachloroethane	ND	0.0167	0.0333	mg/kg wet	50			 	 	
Tetrachloroethene (PCE)	ND	0.00833	0.0167	mg/kg wet	50			 	 	
Toluene	ND	0.0167	0.0333	mg/kg wet	50			 	 	
1,2,3-Trichlorobenzene	ND	0.0833	0.167	mg/kg wet	50			 	 	
1,2,4-Trichlorobenzene	ND	0.0833	0.167	mg/kg wet	50			 	 	
1,1,1-Trichloroethane	ND	0.00833	0.0167	mg/kg wet	50			 	 	
1,1,2-Trichloroethane	ND	0.00833	0.0167	mg/kg wet	50			 	 	
Trichloroethene (TCE)	ND	0.00833	0.0167	mg/kg wet	50			 	 	
Trichlorofluoromethane	ND	0.0333	0.0667	mg/kg wet	50			 	 	Q-30
1,2,3-Trichloropropane	ND	0.0167	0.0333	mg/kg wet	50			 	 	
1,2,4-Trimethylbenzene	ND	0.0167	0.0333	mg/kg wet	50			 	 	
1,3,5-Trimethylbenzene	ND	0.0167	0.0333	mg/kg wet	50			 	 	
Vinyl chloride	ND	0.00833	0.0167	mg/kg wet	50			 	 	
m,p-Xylene	ND	0.0167	0.0333	mg/kg wet	50			 	 	
o-Xylene	ND	0.00833	0.0167	mg/kg wet	50			 	 	

Surr: 1,4-Difluorobenzene (Surr) Recovery: 113 % Limits: 80-120 % Dilution: 1x

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 75 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

			/olatile Or	ganic Con	npounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120869 - EPA 5035A							Soil					
Blank (0120869-BLK1)			Prepared	: 12/23/20 0	9:00 Anal	lyzed: 12/23	/20 14:26					
Surr: Toluene-d8 (Surr)		Recove	ery: 100 %	Limits: 80-	120 %	Dilı	ution: 1x					
4-Bromofluorobenzene (Surr)			106 %	79-	120 %		"					
LCS (0120869-BS1)			Prepared	: 12/23/20 0	9:00 Anal	lyzed: 12/23	/20 13:32					
5035A/8260D												
Acetone	1.64	0.500	1.00	mg/kg we	t 50	2.00		82	80-120%			
Acrylonitrile	0.841	0.0500	0.100	mg/kg we	t 50	1.00		84	80-120%			
Benzene	1.17	0.00500	0.0100	mg/kg we	t 50	1.00		117	80-120%			
Bromobenzene	1.12	0.0125	0.0250	mg/kg we	t 50	1.00		112	80-120%			
Bromochloromethane	0.991	0.0250	0.0500	mg/kg we	t 50	1.00		99	80-120%			
Bromodichloromethane	1.03	0.0250	0.0500	mg/kg we	t 50	1.00		103	80-120%			
Bromoform	0.890	0.0500	0.100	mg/kg we	t 50	1.00		89	80-120%			
Bromomethane	1.04	0.500	0.500	mg/kg we	t 50	1.00		104	80-120%			
2-Butanone (MEK)	1.87	0.250	0.500	mg/kg we	t 50	2.00		93	80-120%			
n-Butylbenzene	1.09	0.0250	0.0500	mg/kg we	t 50	1.00		109	80-120%			
sec-Butylbenzene	1.13	0.0250	0.0500	mg/kg we	t 50	1.00		113	80-120%			
tert-Butylbenzene	1.05	0.0250	0.0500	mg/kg we	t 50	1.00		105	80-120%			
Carbon disulfide	1.15	0.250	0.500	mg/kg we	t 50	1.00		115	80-120%			
Carbon tetrachloride	1.09	0.0250	0.0500	mg/kg we	t 50	1.00		109	80-120%			
Chlorobenzene	1.06	0.0125	0.0250	mg/kg we	t 50	1.00		106	80-120%			
Chloroethane	0.666	0.500	0.500	mg/kg we	t 50	1.00		67	80-120%			Q
Chloroform	1.07	0.0250	0.0500	mg/kg we	t 50	1.00		107	80-120%			
Chloromethane	0.976	0.125	0.250	mg/kg we	t 50	1.00		98	80-120%			
2-Chlorotoluene	1.16	0.0250	0.0500	mg/kg we		1.00		116	80-120%			
4-Chlorotoluene	1.06	0.0250	0.0500	mg/kg we		1.00		106	80-120%			
Dibromochloromethane	0.973	0.0500	0.100	mg/kg we		1.00		97	80-120%			
1,2-Dibromo-3-chloropropane	0.922	0.125	0.250	mg/kg we		1.00		92	80-120%			
1,2-Dibromoethane (EDB)	1.09	0.0250	0.0500	mg/kg we	t 50	1.00		109	80-120%			
Dibromomethane	1.09	0.0250	0.0500	mg/kg we		1.00		109	80-120%			
1,2-Dichlorobenzene	1.10	0.0125	0.0250	mg/kg we		1.00		110	80-120%			
1,3-Dichlorobenzene	1.14	0.0125	0.0250	mg/kg we		1.00		114	80-120%			
1,4-Dichlorobenzene	1.04	0.0125	0.0250	mg/kg we		1.00		104	80-120%			
Dichlorodifluoromethane	0.994	0.0500	0.100	mg/kg we		1.00		99	80-120%			
1,1-Dichloroethane	1.09	0.0125	0.0250	mg/kg we		1.00		109	80-120%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 76 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120869 - EPA 5035A							Soil					
LCS (0120869-BS1)			Prepared	: 12/23/20 0	9:00 Anal	yzed: 12/23	/20 13:32					
1,2-Dichloroethane (EDC)	0.914	0.0125	0.0250	mg/kg we	t 50	1.00		91	80-120%			
1,1-Dichloroethene	0.979	0.0125	0.0250	mg/kg we	et 50	1.00		98	80-120%			
cis-1,2-Dichloroethene	1.06	0.0125	0.0250	mg/kg we	et 50	1.00		106	80-120%			
trans-1,2-Dichloroethene	1.09	0.0125	0.0250	mg/kg we	et 50	1.00		109	80-120%			
1,2-Dichloropropane	1.07	0.0125	0.0250	mg/kg we	et 50	1.00		107	80-120%			
1,3-Dichloropropane	1.02	0.0250	0.0500	mg/kg we	et 50	1.00		102	80-120%			
2,2-Dichloropropane	1.63	0.0250	0.0500	mg/kg we	et 50	1.00		163	80-120%			Q-56
1,1-Dichloropropene	1.15	0.0250	0.0500	mg/kg we	et 50	1.00		115	80-120%			
cis-1,3-Dichloropropene	1.11	0.0250	0.0500	mg/kg we	et 50	1.00		111	80-120%			
trans-1,3-Dichloropropene	0.952	0.0500	0.100	mg/kg we	et 50	1.00		95	80-120%			
Ethylbenzene	1.08	0.0125	0.0250	mg/kg we	et 50	1.00		108	80-120%			
Hexachlorobutadiene	1.14	0.0500	0.100	mg/kg we	et 50	1.00		114	80-120%			
2-Hexanone	1.64	0.250	0.500	mg/kg we	et 50	2.00		82	80-120%			
Isopropylbenzene	0.998	0.0250	0.0500	mg/kg we	et 50	1.00		100	80-120%			
4-Isopropyltoluene	1.08	0.0250	0.0500	mg/kg we	et 50	1.00		108	80-120%			
Methylene chloride	1.06	0.250	0.500	mg/kg we	et 50	1.00		106	80-120%			
4-Methyl-2-pentanone (MiBK)	1.73	0.250	0.500	mg/kg we	et 50	2.00		87	80-120%			
Methyl tert-butyl ether (MTBE)	1.08	0.0250	0.0500	mg/kg we	et 50	1.00		108	80-120%			
Naphthalene	0.966	0.0500	0.100	mg/kg we	et 50	1.00		97	80-120%			
n-Propylbenzene	1.10	0.0125	0.0250	mg/kg we	et 50	1.00		110	80-120%			
Styrene	0.957	0.0250	0.0500	mg/kg we	et 50	1.00		96	80-120%			
1,1,1,2-Tetrachloroethane	1.04	0.0125	0.0250	mg/kg we	et 50	1.00		104	80-120%			
1,1,2,2-Tetrachloroethane	0.963	0.0250	0.0500	mg/kg we	et 50	1.00		96	80-120%			
Tetrachloroethene (PCE)	1.18	0.0125	0.0250	mg/kg we	et 50	1.00		118	80-120%			
Toluene	1.03	0.0250	0.0500	mg/kg we	et 50	1.00		103	80-120%			
1,2,3-Trichlorobenzene	1.12	0.125	0.250	mg/kg we	et 50	1.00		112	80-120%			
1,2,4-Trichlorobenzene	1.04	0.125	0.250	mg/kg we	et 50	1.00		104	80-120%			
1,1,1-Trichloroethane	1.10	0.0125	0.0250	mg/kg we	et 50	1.00		110	80-120%			
1,1,2-Trichloroethane	1.07	0.0125	0.0250	mg/kg we	et 50	1.00		107	80-120%			
Trichloroethene (TCE)	1.28	0.0125	0.0250	mg/kg we	et 50	1.00		128	80-120%			Q-56
Trichlorofluoromethane	0.604	0.0500	0.100	mg/kg we	et 50	1.00		60	80-120%			Q-30
1,2,3-Trichloropropane	0.960	0.0250	0.0500	mg/kg we		1.00		96	80-120%			
1,2,4-Trimethylbenzene	1.05	0.0250	0.0500	mg/kg we		1.00		105	80-120%			
1,3,5-Trimethylbenzene	1.09	0.0250	0.0500	mg/kg we	et 50	1.00		109	80-120%			

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 77 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce Circle Project Number: BCSAmerica-1-02 Report ID: Wilsonville, OR 97070 Project Manager: Kyle Haggart A0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

		•	Volatile Org	ganic Con	npounds	by EPA 8	260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120869 - EPA 5035A							Soil					
LCS (0120869-BS1)			Prepared	: 12/23/20 0	9:00 Ana	lyzed: 12/23	/20 13:32					
Vinyl chloride	1.02	0.0125	0.0250	mg/kg we	t 50	1.00		102	80-120%			
n,p-Xylene	1.95	0.0250	0.0500	mg/kg we	t 50	2.00		98	80-120%			
-Xylene	0.954	0.0125	0.0250	mg/kg we	t 50	1.00		95	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 112 %	Limits: 80-	120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			98 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			103 %	79-	120 %		"					
Ouplicate (0120869-DUP1)			Prepared	: 12/17/20 1	0:10 Anal	lyzed: 12/23	/20 18:58					
OC Source Sample: CB-1 (A0L06	98-01)											
5035A/8260D												
Acetone	ND	2.23	4.47	mg/kg dr	y 50		ND				30%	
crylonitrile	ND	0.223	0.447	mg/kg dr	y 50		ND				30%	
Senzene	ND	0.0223	0.0447	mg/kg dr	y 50		ND				30%	
Bromobenzene	ND	0.0559	0.112	mg/kg dr	y 50		ND				30%	
Bromochloromethane	ND	0.112	0.223	mg/kg dr	y 50		ND				30%	
Bromodichloromethane	ND	0.112	0.223	mg/kg dr	y 50		ND				30%	
Bromoform	ND	0.223	0.447	mg/kg dr	y 50		ND				30%	
Bromomethane	ND	2.23	2.23	mg/kg dr	y 50		ND				30%	
-Butanone (MEK)	ND	1.12	2.23	mg/kg dr	y 50		ND				30%	
-Butylbenzene	ND	0.112	0.223	mg/kg dr	y 50		ND				30%	
ec-Butylbenzene	ND	0.112	0.223	mg/kg dr	y 50		ND				30%	
ert-Butylbenzene	ND	0.112	0.223	mg/kg dr			ND				30%	
Carbon disulfide	ND	1.12	2.23	mg/kg dr	y 50		ND				30%	
Carbon tetrachloride	ND	0.112	0.223	mg/kg dr	y 50		ND				30%	
Chlorobenzene	ND	0.0559	0.112	mg/kg dr			ND				30%	
Chloroethane	ND	2.23	2.23	mg/kg dr			ND				30%	
Chloroform	ND	0.112	0.223	mg/kg dr	y 50		ND				30%	
Chloromethane	ND	0.559	1.12	mg/kg dr			ND				30%	
-Chlorotoluene	ND	0.112	0.223	mg/kg dr			ND				30%	
-Chlorotoluene	ND	0.112	0.223	mg/kg dr			ND				30%	
Dibromochloromethane	ND	0.223	0.447	mg/kg dr			ND				30%	
,2-Dibromo-3-chloropropane	ND	0.559	1.12	mg/kg dr			ND				30%	
,2-Dibromoethane (EDB)	ND	0.112	0.223	mg/kg dr			ND				30%	
Dibromomethane	ND	0.112	0.223	mg/kg dr			ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 78 of 118 Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source Analyte Result Units Dilution % REC RPD Limit Limit Amount Result Limits Limit Notes Batch 0120869 - EPA 5035A Soil **Duplicate (0120869-DUP1)** Prepared: 12/17/20 10:10 Analyzed: 12/23/20 18:58 QC Source Sample: CB-1 (A0L0698-01) mg/kg dry 1,2-Dichlorobenzene ND 0.0559 0.112 50 ND 30% 0.0559 0.1121,3-Dichlorobenzene ND mg/kg dry 50 ND 30% 1,4-Dichlorobenzene ND 0.0559 0.112 mg/kg dry 50 ND 30% Dichlorodifluoromethane ND 0.223 0.447 mg/kg dry 50 ND 30% 1,1-Dichloroethane ND 0.0559 0.112 mg/kg dry 50 ND 30% ---1,2-Dichloroethane (EDC) ND 0.0559 0.112 mg/kg dry 50 ND 30% 1,1-Dichloroethene ND 0.0559 0.112 mg/kg dry 50 ND 30% 30% 0.0559 ND cis-1,2-Dichloroethene ND 0.112 mg/kg dry 50 trans-1,2-Dichloroethene ND 0.0559 0.112 mg/kg dry 50 ND 30% 1,2-Dichloropropane ND 0.0559 0.112 mg/kg dry 50 ND 30% 1,3-Dichloropropane ND 0.112 0.223 mg/kg dry 50 ND 30% ND 0.112 0.223 ND 30% 2,2-Dichloropropane mg/kg dry 50 1,1-Dichloropropene ND 0.1120.223 mg/kg dry 50 ND 30% ND 0.112 0.223 ND 30% cis-1,3-Dichloropropene mg/kg dry 50 0.223 trans-1,3-Dichloropropene ND 0.447 mg/kg dry 50 ND 30% Ethylbenzene 0.0715 0.0559 0.112 mg/kg dry 50 ND 30% O-05 J Hexachlorobutadiene ND 0.223 0.447 mg/kg dry 50 ND 30% 2-Hexanone ND 1.12 2.23 ND 30% mg/kg dry 50 ---0.112 0.223 Isopropylbenzene ND mg/kg dry 50 ND 30% Q-05 0.112 0.223 0.448 ND mg/kg dry 50 30% 4-Isopropyltoluene ND 1.12 2.23 ND Methylene chloride mg/kg dry 50 30% 4-Methyl-2-pentanone (MiBK) ND 1.12 2.23 mg/kg dry 50 ND ---30% Methyl tert-butyl ether (MTBE) ND 0.112 0.223 mg/kg dry 50 ND 30% Naphthalene 0.273 0.223 0.447 0.336 30% Q-05, J mg/kg dry 50 21 ND 0.0559 0.112 30% n-Propylbenzene mg/kg dry 50 ND ND 30% 0.112 0.223 ND Styrene mg/kg dry 50 ---1,1,1,2-Tetrachloroethane ND 0.0559 0.112 mg/kg dry ND 30% 50 1,1,2,2-Tetrachloroethane ND 0.112 0.223 mg/kg dry 50 ---ND ------30% Tetrachloroethene (PCE) ND 0.0559 0.112 mg/kg dry 50 ND 30% Toluene ND 0.112 0.223 0.207 30% Q-05 mg/kg dry 50 1,2,3-Trichlorobenzene ND 0.559 1.12 mg/kg dry 50 ND 30% 0.559 1.12 1,2,4-Trichlorobenzene ND 50 ND 30% mg/kg dry 1,1,1-Trichloroethane ND 0.0559 0.112 mg/kg dry 50 ND 30%

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 79 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

		'	Volatile Or	ganic Cor	npounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120869 - EPA 5035A							Soil					
Duplicate (0120869-DUP1)			Prepared	d: 12/17/20 1	0:10 Ana	lyzed: 12/23	/20 18:58					
QC Source Sample: CB-1 (A0L06	<u>98-01)</u>											
1,1,2-Trichloroethane	ND	0.0559	0.112	mg/kg dr	y 50		ND				30%	
Trichloroethene (TCE)	ND	0.0559	0.112	mg/kg dr	y 50		ND				30%	
Trichlorofluoromethane	ND	0.223	0.447	mg/kg dr	y 50		ND				30%	Q-3
1,2,3-Trichloropropane	ND	0.112	0.223	mg/kg dr	y 50		ND				30%	
1,2,4-Trimethylbenzene	ND	0.112	0.223	mg/kg dr	y 50		ND				30%	
1,3,5-Trimethylbenzene	ND	0.112	0.223	mg/kg dr	y 50		ND				30%	
Vinyl chloride	ND	0.0559	0.112	mg/kg dr	y 50		ND				30%	
m,p-Xylene	ND	0.112	0.223	mg/kg dr	y 50		ND				30%	
o-Xylene	ND	0.0559	0.112	mg/kg dr	y 50		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 106 %	Limits: 80-	-120 %	Dila	ution: 1x					
Toluene-d8 (Surr)			99 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			108 %	79-	120 %		"					
Matrix Spike (0120869-MS1)			Prepared	d: 12/17/20 1	1:05 Ana	lyzed: 12/23	/20 20:47					
QC Source Sample: CB-4 DUP (A												
Acetone	10.4	2.66	5.33	mg/kg dr	•	5.15	ND		36-164%			
Acrylonitrile	4.90	0.266	0.533	mg/kg dr	y 50	2.57	ND	190	65-134%			
Benzene	5.30	0.0266	0.0533	mg/kg dr	y 50	2.57	ND	206	77-121%			
Bromobenzene	5.41	0.0666	0.133	mg/kg dr	y 50	2.57	ND	210	78-121%			
Bromochloromethane	5.17	0.133	0.266	mg/kg dr	y 50	2.57	ND	201	78-125%			
Bromodichloromethane	5.47	0.133	0.266	mg/kg dr		2.57	ND	212	75-127%			
Bromoform	5.25	0.266	0.533	mg/kg dr	y 50	2.57	ND	204	67-132%			
Bromomethane	5.78	2.66	2.66	mg/kg dr	y 50	2.57	ND	225	53-143%			
2-Butanone (MEK)	10.3	1.33	2.66	mg/kg dr	y 50	5.15	ND	200	51-148%			
n-Butylbenzene	5.07	0.133	0.266	mg/kg dr	y 50	2.57	ND	197	70-128%			
sec-Butylbenzene	5.18	0.133	0.266	mg/kg dr	y 50	2.57	ND	201	73-126%			
tert-Butylbenzene	5.11	0.133	0.266	mg/kg dr	y 50	2.57	ND	199	73-125%			
Carbon disulfide	5.45	1.33	2.66	mg/kg dr	y 50	2.57	ND	212	63-132%			
Carbon tetrachloride	5.93	0.133	0.266	mg/kg dr	y 50	2.57	ND	230	70-135%			
Chlorobenzene	5.43	0.0666	0.133	mg/kg dr	y 50	2.57	ND	211	79-120%			
Chloroethane	5.37	2.66	2.66	mg/kg dr	y 50	2.57	ND	209	59-139%			Q-54
Chloroform	5.41	0.133	0.266	mg/kg dr	y 50	2.57	ND	210	78-123%			
Chloromethane	4.49	0.666	1.33	mg/kg dr	v 50	2.57	ND	174	50-136%			

Apex Laboratories

Philip Namberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 80 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source Analyte Result Units Dilution % REC RPD Limit Limit Amount Result Limits Limit Notes Batch 0120869 - EPA 5035A Soil Matrix Spike (0120869-MS1) Prepared: 12/17/20 11:05 Analyzed: 12/23/20 20:47 QC Source Sample: CB-4 DUP (A0L0698-05) mg/kg dry 2-Chlorotoluene 5.53 0.133 0.266 50 2.57 ND 215 75-122% 0.266 0.133 4-Chlorotoluene 5.23 mg/kg dry 50 2.57 ND 203 72-124% Dibromochloromethane 5.63 0.266 0.533 mg/kg dry 50 2.57 ND 219 74-126% 1,2-Dibromo-3-chloropropane 5.21 0.666 1.33 mg/kg dry 50 2.57 ND 202 61-132% 1,2-Dibromoethane (EDB) 5.75 0.133 0.266 mg/kg dry 50 2.57 ND 224 78-122% Dibromomethane 0.133 2.57 ND 5.36 0.266 mg/kg dry 50 208 78-125% 1,2-Dichlorobenzene 5.65 0.0666 0.133 mg/kg dry 50 2.57 ND 219 78-121% 2.57 ND 1.3-Dichlorobenzene 5.69 0.0666 0.133 mg/kg dry 50 221 77-121% 1,4-Dichlorobenzene 5.29 0.0666 0.133 mg/kg dry 50 2.57 ND 205 75-120% Dichlorodifluoromethane 5.35 0.266 0.533 mg/kg dry 50 2.57 ND 208 29-149% 1,1-Dichloroethane 5.26 0.0666 0.133 mg/kg dry 50 2.57 ND 204 76-125% 50 1,2-Dichloroethane (EDC) 0.0666 0.133 2.57 ND 199 73-128% 5.12 mg/kg dry 1,1-Dichloroethene 5.22 0.0666 0.133 mg/kg dry 50 2.57 ND 203 70-131% 5.20 0.0666 0.133 2.57 ND 202 77-123% cis-1,2-Dichloroethene mg/kg dry 50 trans-1,2-Dichloroethene 5.22 0.0666 0.133 mg/kg dry 50 2.57 ND 203 74-125% 1,2-Dichloropropane 4.87 0.0666 0.133 mg/kg dry 50 2.57 ND 189 76-123% ___ 1,3-Dichloropropane 5.30 0.133 0.266 mg/kg dry 50 2.57 ND 206 77-121% 7.05 2.57 ND 274 Q-54d 2,2-Dichloropropane 0.1330.266 mg/kg dry 50 67-133% 5.54 2.57 76-125% 1,1-Dichloropropene 0.133 0.266 mg/kg dry 50 ND 215 0.133 cis-1,3-Dichloropropene 0.266 mg/kg dry 50 2.57 ND 218 74-126% 5.62 0.266 2.57 ND trans-1,3-Dichloropropene 5.36 0.533 mg/kg dry 50 208 71-130% Ethylbenzene 5.56 0.0666 0.133 mg/kg dry 50 2.57 ND 216 76-122% Hexachlorobutadiene 5.69 0.266 0.533 mg/kg dry 50 2.57 ND 221 61-135% 2-Hexanone ND 218 11.2 1.33 2.66 mg/kg dry 50 5.15 53-145% 5.13 0.133 2.57 199 68-134% Isopropylbenzene 0.266 mg/kg dry 50 ND 5.11 0.133 0.266 2.57 ND 4-Isopropyltoluene mg/kg dry 50 199 73-127% Methylene chloride 5.13 1.33 2.66 2.57 ND 199 70-128% mg/kg dry 50 4-Methyl-2-pentanone (MiBK) 10.8 1.33 2.66 mg/kg dry 50 5.15 ND 209 65-135% Methyl tert-butyl ether (MTBE) 5.46 0.133 0.266 mg/kg dry 50 2.57 ND 212 73-125% Naphthalene 4.92 0.266 0.533 2 57 ND 191 62-129% mg/kg dry 50 n-Propylbenzene 5.12 0.0666 0.133 mg/kg dry 50 2.57 ND 199 73-125% 0.133 0.266 2.57 202 Styrene 5.19 50 ND 76-124% mg/kg dry ---1,1,1,2-Tetrachloroethane 5.69 0.0666 0.133 mg/kg dry 50 2.57 ND 221 78-125%

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 81 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 0120869 - EPA 5035A Soil Matrix Spike (0120869-MS1) Prepared: 12/17/20 11:05 Analyzed: 12/23/20 20:47 QC Source Sample: CB-4 DUP (A0L0698-05) 1,1,2,2-Tetrachloroethane 5.04 0.133 0.266 mg/kg dry 50 2.57 ND 196 70-124% 5.98 0.0666 Tetrachloroethene (PCE) 0.133 mg/kg dry 50 2.57 ND 232 73-128% Toluene 5.23 0.133 0.266 mg/kg dry 50 2.57 ND 203 77-121% 1,2,3-Trichlorobenzene 5.65 0.666 1.33 mg/kg dry 50 2.57 ND 219 66-130% 1,2,4-Trichlorobenzene 5.21 0.666 1.33 mg/kg dry 50 2.57 ND 203 67-129% 1,1,1-Trichloroethane 5.82 0.0666 0.1332.57 ND mg/kg dry 50 226 73-130% 0.0666 1,1,2-Trichloroethane 5.58 0.133mg/kg dry 50 2.57 ND 217 78-121% Trichloroethene (TCE) 5.76 0.06662.57 ND Q-54e 0.133 mg/kg dry 50 224 77-123% Q-30 Trichlorofluoromethane 11.0 0.266 0.533 mg/kg dry 50 2.57 ND 426 62-140% 1,2,3-Trichloropropane 5.45 0.133 0.266 mg/kg dry 50 2.57 ND 212 73-125% 1,2,4-Trimethylbenzene 5.09 0.133 0.266 mg/kg dry 50 2.57 ND 198 75-123% 1,3,5-Trimethylbenzene 5.27 0.1330.266 2.57 ND 205 mg/kg dry 50 73-124% 0.0666 2.57 ND Vinyl chloride 5.01 0.133 mg/kg dry 50 195 56-135% 5.15 0.133 m,p-Xylene 10.4 0.266 ND 202 77-124% mg/kg dry 50 0.0666 0.133 197 77-123% o-Xylene 5.08 mg/kg dry 50 ND Surr: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 97 % 80-120 % 4-Bromofluorobenzene (Surr) 98 % 79-120 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 82 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Units Dilution % REC RPD Limit Limit Amount Result Limits Limit Notes Batch 0120899 - EPA 5035A Soil Blank (0120899-BLK1) Prepared: 12/28/20 09:00 Analyzed: 12/28/20 12:05 5035A/8260D ND 0.333 0.667 mg/kg wet Acetone 0.0667 ND 0.0333 50 Acrylonitrile mg/kg wet Benzene ND 0.00333 0.00667mg/kg wet 50 Bromobenzene ND 0.00833 0.0167 mg/kg wet 50 Bromochloromethane ND 0.0167 0.0333 mg/kg wet 50 ND 0.0167 Bromodichloromethane 0.0333 mg/kg wet 50 Bromoform ND 0.0333 0.0667 mg/kg wet 50 Bromomethane 0.333 0.333 ND mg/kg wet 50 2-Butanone (MEK) ND 0.167 0.333 mg/kg wet 50 n-Butylbenzene ND 0.0167 0.0333 mg/kg wet 50 sec-Butylbenzene ND 0.0167 0.0333 mg/kg wet 50 ND 0.0167 0.0333 tert-Butylbenzene mg/kg wet 50 Carbon disulfide ND 0.167 0.333 mg/kg wet 50 Carbon tetrachloride ND 0.0167 0.0333 mg/kg wet 50 Chlorobenzene ND 0.00833 0.0167 mg/kg wet 50 Chloroethane ND 0.333 0.333 mg/kg wet 50 ------Chloroform ND 0.0167 0.0333 mg/kg wet 50 ND 0.167 0.167 Chloromethane mg/kg wet 50 ---2-Chlorotoluene ND 0.0167 0.0333 mg/kg wet 50 4-Chlorotoluene ND 0.0167 0.0333 mg/kg wet 50 Dibromochloromethane ND 0.03330.0667 mg/kg wet 50 1,2-Dibromo-3-chloropropane ND 0.0833 0.167 mg/kg wet 50 0.0167 1,2-Dibromoethane (EDB) ND 0.0333 mg/kg wet 50 Dibromomethane ND 0.0167 0.0333 mg/kg wet 50 0.00833 1,2-Dichlorobenzene ND 0.0167 mg/kg wet 50 1,3-Dichlorobenzene ND 0.00833 0.0167 mg/kg wet 50 1,4-Dichlorobenzene ND 0.008330.0167 mg/kg wet 50 Dichlorodifluoromethane ND 0.0333 0.0667 mg/kg wet 50 ---1,1-Dichloroethane ND 0.0167 0.00833mg/kg wet 50 0.00833 1,2-Dichloroethane (EDC) ND 0.0167 mg/kg wet 50 mg/kg wet 1,1-Dichloroethene ND 0.00833 50 0.0167 cis-1,2-Dichloroethene ND 0.00833 0.0167 mg/kg wet 50 trans-1,2-Dichloroethene 0.00833 0.0167 ND mg/kg wet 50

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 83 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source Analyte Result Units Dilution % REC RPD Limit Limit Amount Result Limits Limit Notes Batch 0120899 - EPA 5035A Soil Blank (0120899-BLK1) Prepared: 12/28/20 09:00 Analyzed: 12/28/20 12:05 ND 0.00833 0.0167 mg/kg wet 50 1,2-Dichloropropane 1,3-Dichloropropane ND 0.0167 0.0333 mg/kg wet 50 ---------2,2-Dichloropropane ND 0.0167 0.0333 mg/kg wet 50 1,1-Dichloropropene ND 0.0167 0.0333 mg/kg wet 50 0.033350 ND 0.0167 mg/kg wet cis-1,3-Dichloropropene trans-1,3-Dichloropropene ND 0.0333 0.0667 mg/kg wet 50 mg/kg wet Ethylbenzene ND 0.00833 0.0167 50 0.0333 Hexachlorobutadiene ND 0.0667 mg/kg wet 50 0.333 0.333 2-Hexanone ND mg/kg wet 50 Isopropylbenzene ND 0.0167 0.0333mg/kg wet 50 ND 0.0167 0.0333 mg/kg wet 50 4-Isopropyltoluene 0.167 Methylene chloride ND 0.333 mg/kg wet 50 ND 0.333 4-Methyl-2-pentanone (MiBK) 0.167 mg/kg wet 50 0.0167 Methyl tert-butyl ether (MTBE) ND 0.0333 mg/kg wet 50 Naphthalene ND 0.0333 0.0667 mg/kg wet 50 n-Propylbenzene ND 0.00833 0.0167 mg/kg wet 50 ND 0.0167 0.0333 Styrene mg/kg wet 50 1,1,1,2-Tetrachloroethane ND 0.00833 mg/kg wet 0.0167 50 ND 1.1.2.2-Tetrachloroethane 0.0167 0.0333 mg/kg wet 50 ------0.0167 Tetrachloroethene (PCE) ND 0.00833 mg/kg wet 50 Toluene ND 0.0167 0.0333 mg/kg wet 50 1,2,3-Trichlorobenzene ND 0.0833 0.167 mg/kg wet 50 1,2,4-Trichlorobenzene ND 0.0833 0.167 mg/kg wet 50 1,1,1-Trichloroethane ND 0.00833 0.0167 mg/kg wet 50 ND 0.00833 1,1,2-Trichloroethane 0.0167 mg/kg wet 50 ------------Trichloroethene (TCE) ND 0.00833 0.0167 mg/kg wet 50 Trichlorofluoromethane ND 0.0667 0.0667 mg/kg wet 50 ---1,2,3-Trichloropropane ND 0.0167 0.0333 mg/kg wet 50 1,2,4-Trimethylbenzene ND 0.0167 0.0333 mg/kg wet 50 1,3,5-Trimethylbenzene ND 0.0167 0.0333mg/kg wet 50 Vinyl chloride ND 0.00833 0.0167 mg/kg wet 50 --m,p-Xylene ND 0.0167 0.0333 mg/kg wet 50 o-Xylene ND 0.00833 0.0167 mg/kg wet 50

Apex Laboratories

Surr: 1,4-Difluorobenzene (Surr)

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dilution: 1x

Philip Nerenberg, Lab Director

Page 84 of 118

Limits: 80-120 %

Recovery: 107 %



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D RPD Detection Reporting Spike Source % REC Result Units Dilution % REC RPD Analyte Limit Limit Amount Result Limits Limit Notes Batch 0120899 - EPA 5035A Soil Blank (0120899-BLK1) Prepared: 12/28/20 09:00 Analyzed: 12/28/20 12:05 Surr: Toluene-d8 (Surr) Recovery: 99% Limits: 80-120 % Dilution: 1x 4-Bromofluorobenzene (Surr) 107 % 79-120 % LCS (0120899-BS1) Prepared: 12/28/20 09:00 Analyzed: 12/28/20 11:11 5035A/8260D Acetone 1.66 0.500 1.00 mg/kg wet 50 2.00 83 80-120% Acrylonitrile 0.872 0.0500 0.100 mg/kg wet 50 1.00 87 80-120% Benzene 1.03 0.00500 0.0100 mg/kg wet 50 1.00 103 80-120% 0.0125 Bromobenzene 1.07 0.0250 mg/kg wet 1.00 107 80-120% 50 ------Bromochloromethane 0.894 0.0250 0.0500 mg/kg wet 50 1.00 89 80-120% 0.0250 0.0500 80-120% Bromodichloromethane 0.996 mg/kg wet 50 1.00 100 Bromoform 0.952 0.0500 0.100 mg/kg wet 50 1.00 95 80-120% Bromomethane 0.920 0.500 0.500 mg/kg wet 50 1.00 92 80-120% 2-Butanone (MEK) 1.64 0.250 0.500 mg/kg wet 50 2.00 82 80-120% 1.03 0.0250 0.0500 1.00 103 80-120% n-Butylbenzene mg/kg wet 50 -----sec-Butylbenzene 1.04 0.0250 0.0500 mg/kg wet 50 1.00 104 80-120% tert-Butylbenzene 0.990 0.0250 0.0500 mg/kg wet 50 1.00 99 80-120% Carbon disulfide 0.994 0.250 0.500 mg/kg wet 50 1.00 99 80-120% Carbon tetrachloride 1.07 0.0250 0.0500 mg/kg wet 50 1.00 107 80-120% Chlorobenzene 0.9900.0125 0.0250 mg/kg wet 50 1.00 99 80-120% Chloroethane 0.654 0.500 0.500 50 1.00 80-120% Q-55 mg/kg wet 65 0.0250 99 80-120% Chloroform 0.990 0.0500 mg/kg wet 50 1.00 Chloromethane 0.782 0.250 0.250 mg/kg wet 50 1.00 78 80-120% Q-55 2-Chlorotoluene 1.06 0.0250 0.0500mg/kg wet 50 1.00 106 80-120% 4-Chlorotoluene 0.994 0.0250 0.0500 mg/kg wet 50 1.00 99 80-120% 0.0500 Dibromochloromethane 1.01 0.100mg/kg wet 50 1.00 101 80-120% 1,2-Dibromo-3-chloropropane 0.939 0.125 0.250 mg/kg wet 50 1.00 94 80-120% 1,2-Dibromoethane (EDB) 80-120% 1.06 0.0250 0.0500 mg/kg wet 50 1.00 106 Dibromomethane 0.994 0.0250 0.0500 mg/kg wet 50 1.00 99 80-120% mg/kg wet 1,2-Dichlorobenzene 1.06 0.0125 0.025050 1.00 106 80-120% 1,3-Dichlorobenzene 1.09 0.0125 0.0250 mg/kg wet 50 1.00 109 80-120% 1,4-Dichlorobenzene 1.00 0.0125 0.0250 1.00 100 80-120% mg/kg wet 50 Dichlorodifluoromethane 0.807 0.0500 0.100 mg/kg wet 50 1.00 81 80-120% 1,1-Dichloroethane 0.960 0.0125 0.02501.00 80-120% mg/kg wet 50 96

Apex Laboratories

Philip Manherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 85 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS Volatile Organic Compounds by EPA 8260D

Detection Reporting Spike Source % REC **RPD** % REC Limits RPD Analyte Result Ĺimit Units Dilution Amount Result Limit Notes Limit

Batch 0120899 - EPA 5035A							Soi	l			
LCS (0120899-BS1)			Prepared	: 12/28/20 09:	00 Ana	alyzed: 12/28/	20 11:11				
1,2-Dichloroethane (EDC)	0.907	0.0125	0.0250	mg/kg wet	50	1.00		91	80-120%	 	
1,1-Dichloroethene	0.882	0.0125	0.0250	mg/kg wet	50	1.00		88	80-120%	 	
cis-1,2-Dichloroethene	0.972	0.0125	0.0250	mg/kg wet	50	1.00		97	80-120%	 	
trans-1,2-Dichloroethene	0.982	0.0125	0.0250	mg/kg wet	50	1.00		98	80-120%	 	
1,2-Dichloropropane	0.948	0.0125	0.0250	mg/kg wet	50	1.00		95	80-120%	 	
1,3-Dichloropropane	0.960	0.0250	0.0500	mg/kg wet	50	1.00		96	80-120%	 	
2,2-Dichloropropane	1.56	0.0250	0.0500	mg/kg wet	50	1.00		156	80-120%	 	Q-56
1,1-Dichloropropene	1.06	0.0250	0.0500	mg/kg wet	50	1.00		106	80-120%	 	
cis-1,3-Dichloropropene	1.05	0.0250	0.0500	mg/kg wet	50	1.00		105	80-120%	 	
trans-1,3-Dichloropropene	0.965	0.0500	0.100	mg/kg wet	50	1.00		96	80-120%	 	
Ethylbenzene	1.01	0.0125	0.0250	mg/kg wet	50	1.00		101	80-120%	 	
Hexachlorobutadiene	1.16	0.0500	0.100	mg/kg wet	50	1.00		116	80-120%	 	
2-Hexanone	1.53	0.500	0.500	mg/kg wet	50	2.00		77	80-120%	 	Q-55
Isopropylbenzene	0.945	0.0250	0.0500	mg/kg wet	50	1.00		94	80-120%	 	
4-Isopropyltoluene	1.01	0.0250	0.0500	mg/kg wet	50	1.00		101	80-120%	 	
Methylene chloride	0.920	0.250	0.500	mg/kg wet	50	1.00		92	80-120%	 	
4-Methyl-2-pentanone (MiBK)	1.64	0.250	0.500	mg/kg wet	50	2.00		82	80-120%	 	
Methyl tert-butyl ether (MTBE)	1.03	0.0250	0.0500	mg/kg wet	50	1.00		103	80-120%	 	
Naphthalene	0.961	0.0500	0.100	mg/kg wet	50	1.00		96	80-120%	 	
n-Propylbenzene	1.01	0.0125	0.0250	mg/kg wet	50	1.00		101	80-120%	 	
Styrene	0.898	0.0250	0.0500	mg/kg wet	50	1.00		90	80-120%	 	
1,1,1,2-Tetrachloroethane	1.02	0.0125	0.0250	mg/kg wet	50	1.00		102	80-120%	 	
1,1,2,2-Tetrachloroethane	0.908	0.0250	0.0500	mg/kg wet	50	1.00		91	80-120%	 	
Tetrachloroethene (PCE)	1.14	0.0125	0.0250	mg/kg wet	50	1.00		114	80-120%	 	
Toluene	0.957	0.0250	0.0500	mg/kg wet	50	1.00		96	80-120%	 	
1,2,3-Trichlorobenzene	1.12	0.125	0.250	mg/kg wet	50	1.00		112	80-120%	 	
1,2,4-Trichlorobenzene	1.06	0.125	0.250	mg/kg wet	50	1.00		106	80-120%	 	
1,1,1-Trichloroethane	1.05	0.0125	0.0250	mg/kg wet	50	1.00		105	80-120%	 	
1,1,2-Trichloroethane	1.04	0.0125	0.0250	mg/kg wet	50	1.00		104	80-120%	 	
Trichloroethene (TCE)	1.13	0.0125	0.0250	mg/kg wet	50	1.00		113	80-120%	 	
Trichlorofluoromethane	0.704	0.100	0.100	mg/kg wet	50	1.00		70	80-120%	 	Q-55
1,2,3-Trichloropropane	0.938	0.0250	0.0500	mg/kg wet	50	1.00		94	80-120%	 	
1,2,4-Trimethylbenzene	0.984	0.0250	0.0500	mg/kg wet	50	1.00		98	80-120%	 	
1,3,5-Trimethylbenzene	1.03	0.0250	0.0500	mg/kg wet	50	1.00		103	80-120%	 	

Apex Laboratories

Philip Manhera

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 86 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Or	ganic Cor	npounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120899 - EPA 5035A							Soil					
LCS (0120899-BS1)			Prepared	1: 12/28/20 0	9:00 Ana	lyzed: 12/28	/20 11:11					
/inyl chloride	0.832	0.0125	0.0250	mg/kg we	et 50	1.00		83	80-120%			
n,p-Xylene	1.85	0.0250	0.0500	mg/kg we	et 50	2.00		92	80-120%			
-Xylene	0.902	0.0125	0.0250	mg/kg we	et 50	1.00		90	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 107 %	Limits: 80-	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			96 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			103 %	79-	120 %		"					
Duplicate (0120899-DUP1)			Prepared	l: 12/21/20 1	2:41 Ana	lyzed: 12/28	/20 16:11					
OC Source Sample: Non-SDG (A0	L0839-05)											
Acetone	ND	0.679	1.36	mg/kg dr	y 50		ND				30%	
Acrylonitrile	ND	0.0679	0.136	mg/kg dr	y 50		ND				30%	
Benzene	ND	0.00679	0.0136	mg/kg dr	y 50		ND				30%	
Bromobenzene	ND	0.0170	0.0339	mg/kg dr	y 50		ND				30%	
Bromochloromethane	ND	0.0339	0.0679	mg/kg dr	y 50		ND				30%	
Bromodichloromethane	ND	0.0339	0.0679	mg/kg dr	y 50		ND				30%	
Bromoform	ND	0.0679	0.136	mg/kg dr	y 50		ND				30%	
Bromomethane	ND	0.679	0.679	mg/kg dr	y 50		ND				30%	
-Butanone (MEK)	ND	0.339	0.679	mg/kg dr	y 50		ND				30%	
-Butylbenzene	ND	0.0339	0.0679	mg/kg dr	y 50		ND				30%	
ec-Butylbenzene	ND	0.0339	0.0679	mg/kg dr	y 50		ND				30%	
ert-Butylbenzene	ND	0.0339	0.0679	mg/kg dr	y 50		ND				30%	
Carbon disulfide	ND	0.339	0.679	mg/kg dr	y 50		ND				30%	
Carbon tetrachloride	ND	0.0339	0.0679	mg/kg dr	y 50		ND				30%	
Chlorobenzene	ND	0.0170	0.0339	mg/kg dr	y 50		ND				30%	
Chloroethane	ND	0.679	0.679	mg/kg dr	•		ND				30%	
Chloroform	ND	0.0339	0.0679	mg/kg dr	•		ND				30%	
Chloromethane	ND	0.339	0.339	mg/kg dr	y 50		ND				30%	
-Chlorotoluene	ND	0.0339	0.0679	mg/kg dr			ND				30%	
-Chlorotoluene	ND	0.0339	0.0679	mg/kg dr			ND				30%	
Dibromochloromethane	ND	0.0679	0.136	mg/kg dr	•		ND				30%	
,2-Dibromo-3-chloropropane	ND	0.170	0.339	mg/kg dr	•		ND				30%	
,2-Dibromoethane (EDB)	ND	0.0339	0.0679	mg/kg dr	•		ND				30%	
Dibromomethane	ND	0.0339	0.0679	mg/kg dr	•		ND				30%	
,2-Dichlorobenzene	ND	0.0170	0.0339	mg/kg dr	•		ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 87 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source Analyte Result Units Dilution % REC RPD Limit Limit Amount Result Limits Limit Notes Batch 0120899 - EPA 5035A Soil **Duplicate (0120899-DUP1)** Prepared: 12/21/20 12:41 Analyzed: 12/28/20 16:11 QC Source Sample: Non-SDG (A0L0839-05) mg/kg dry 1,3-Dichlorobenzene ND 0.0170 0.0339 50 ND 30% ND 0.0170 0.0339 1,4-Dichlorobenzene mg/kg dry 50 ND 30% Dichlorodifluoromethane ND 0.0679 0.136 mg/kg dry 50 ND 30% 1,1-Dichloroethane ND 0.01700.0339 mg/kg dry 50 ND 30% 1,2-Dichloroethane (EDC) ND 0.0170 0.0339 mg/kg dry 50 ND 30% ---ND 0.0170 1,1-Dichloroethene 0.0339 mg/kg dry 50 ND 30% cis-1,2-Dichloroethene ND 0.01700.0339 mg/kg dry 50 ND 30% trans-1,2-Dichloroethene ND 0.0170 ND 30% 0.0339 mg/kg dry 50 1,2-Dichloropropane ND 0.0170 0.0339 mg/kg dry 50 ND 30% 1,3-Dichloropropane ND 0.0339 0.0679 mg/kg dry 50 ND 30% 2,2-Dichloropropane ND 0.0339 0.0679 mg/kg dry 50 ND 30% ND 0.0339 0.0679ND 30% 1,1-Dichloropropene mg/kg dry 50 cis-1,3-Dichloropropene ND 0.0339 0.0679 mg/kg dry 50 ND 30% ND 0.0679 ND 30% trans-1,3-Dichloropropene 0.136 mg/kg dry 50 Ethylbenzene ND 0.0170 0.0339 mg/kg dry 50 ND 30% ND Hexachlorobutadiene 0.0679 0.136 mg/kg dry 50 ND 30% 2-Hexanone ND 0.679 0.679 mg/kg dry 50 ND 30% ND ND 30% Isopropylbenzene 0.0339 0.0679 mg/kg dry 50 4-Isopropyltoluene ND 0.0339 0.0679 mg/kg dry 50 ND 30% ND 0.339 Methylene chloride 0.679 mg/kg dry 50 ND 30% 4-Methyl-2-pentanone (MiBK) ND 0.339 ND 0.679 mg/kg dry 50 30% Methyl tert-butyl ether (MTBE) ND 0.0339 0.0679 mg/kg dry 50 ND ---30% Naphthalene ND 0.0679 0.136mg/kg dry 50 ND 30% ND 0.0170 ND 30% n-Propylbenzene 0.0339 mg/kg dry 50 ND 0.0339 30% Styrene 0.0679 mg/kg dry 50 ND ND 0.0170 0.0339 ND 30% 1.1.1.2-Tetrachloroethane mg/kg dry 50 1,1,2,2-Tetrachloroethane ND 0.0339 0.0679 mg/kg dry ND 30% 50 0.0170 Tetrachloroethene (PCE) ND 0.0339 mg/kg dry 50 ---ND ------30% Toluene ND 0.0339 0.0679 mg/kg dry 50 ND 30% 1,2,3-Trichlorobenzene ND 0.170 0.339 ND 30% mg/kg dry 50 ---1,2,4-Trichlorobenzene ND 0.170 0.339 mg/kg dry 50 ND 30% 0.0170 50 1,1,1-Trichloroethane ND 0.0339 ND 30% mg/kg dry ---1,1,2-Trichloroethane ND 0.0170 0.0339 mg/kg dry 50 ND 30%

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 88 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120899 - EPA 5035A							Soil					
Duplicate (0120899-DUP1)			Prepared	: 12/21/20 1	2:41 Ana	lyzed: 12/28	/20 16:11					
QC Source Sample: Non-SDG (A0	L0839-05)											
Trichloroethene (TCE)	ND	0.0170	0.0339	mg/kg dr	y 50		ND				30%	
Trichlorofluoromethane	ND	0.136	0.136	mg/kg dr	y 50		ND				30%	
,2,3-Trichloropropane	ND	0.0339	0.0679	mg/kg dr	y 50		ND				30%	
,2,4-Trimethylbenzene	ND	0.0339	0.0679	mg/kg dr	y 50		ND				30%	
,3,5-Trimethylbenzene	ND	0.0339	0.0679	mg/kg dr	y 50		ND				30%	
Vinyl chloride	ND	0.0170	0.0339	mg/kg dr	y 50		ND				30%	
n,p-Xylene	ND	0.0339	0.0679	mg/kg dr	y 50		ND				30%	
o-Xylene	ND	0.0170	0.0339	mg/kg dr			ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 107 %	Limits: 80-	120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			98 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			106 %	79-	120 %		"					
QC Source Sample: Non-SDG (A0		0.020	1.06		50		MD				200/	
Acetone	ND	0.929	1.86	mg/kg dr	y 50		ND				30%	
Acrylonitrile	ND	0.0929	0.186	mg/kg dr			ND				30%	
Benzene	ND	0.00929	0.0186	mg/kg dr			ND				30%	
Bromobenzene	ND	0.0232	0.0464	mg/kg dr			ND				30%	
Bromochloromethane	ND	0.0464	0.0929	mg/kg dr			ND				30%	
Bromodichloromethane	ND	0.0464	0.0929	mg/kg dr			ND				30%	
Bromoform	ND	0.0929	0.186	mg/kg dr			ND				30%	
Bromomethane	ND	0.929	0.929	mg/kg dr			ND				30%	
-Butanone (MEK)	ND	0.464	0.929	mg/kg dr			ND				30%	
-Butylbenzene	ND	0.0464	0.0929	mg/kg dr			ND				30%	
ec-Butylbenzene	ND	0.0464	0.0929	mg/kg dr			ND				30%	
ert-Butylbenzene	ND	0.0464	0.0929	mg/kg dr			ND				30%	
Carbon disulfide	ND	0.464	0.929	mg/kg dr			ND				30%	
arbon tetrachloride	ND	0.0464	0.0929	mg/kg dr			ND				30%	
Chlorobenzene	ND	0.0232	0.0464	mg/kg dr	•		ND				30%	
Chloroethane	ND	0.929	0.929	mg/kg dr			ND				30%	
Chloroform	ND	0.0464	0.0929	mg/kg dr			ND				30%	
Chloromethane	ND	0.464	0.464	mg/kg dr			ND				30%	
-Chlorotoluene	ND	0.0464	0.0929	mg/kg dr			ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 89 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source Analyte Result Units Dilution % REC RPD Limit Limit Amount Result Limits Limit Notes Batch 0120899 - EPA 5035A Soil **Duplicate (0120899-DUP2)** Prepared: 12/21/20 14:25 Analyzed: 12/28/20 22:31 QC Source Sample: Non-SDG (A0L0888-02) 4-Chlorotoluene ND 0.0464 0.0929 mg/kg dry 50 ND 30% ND 0.0929 Dibromochloromethane 0.186 mg/kg dry 50 ND 30% 1,2-Dibromo-3-chloropropane ND 0.232 0.464 mg/kg dry 50 ND 30% 1,2-Dibromoethane (EDB) ND 0.0464 0.0929 mg/kg dry 50 ND 30% Dibromomethane ND 0.0464 0.0929 mg/kg dry 50 ND 30% ---ND 0.0232 1,2-Dichlorobenzene 0.0464mg/kg dry 50 ND 30% 1,3-Dichlorobenzene ND 0.02320.0464 mg/kg dry 50 ND 30% ND 0.02320.0464 ND 30% 1,4-Dichlorobenzene mg/kg dry 50 Dichlorodifluoromethane ND 0.0929 0.186 mg/kg dry 50 ND 30% 1,1-Dichloroethane ND 0.0232 0.0464 mg/kg dry 50 ND 30% 1,2-Dichloroethane (EDC) ND 0.0232 0.0464 mg/kg dry 50 ND 30% 0.0232 1,1-Dichloroethene ND 0.0464 ND 30% mg/kg dry 50 cis-1,2-Dichloroethene ND 0.0232 0.0464 mg/kg dry 50 ND 30% ND 0.0232 0.0464 ND 30% trans-1,2-Dichloroethene mg/kg dry 50 0.0232 1,2-Dichloropropane ND 0.0464 mg/kg dry 50 ND 30% 1,3-Dichloropropane ND 0.0464 0.0929 mg/kg dry 50 ND 30% 2,2-Dichloropropane ND 0.0464 0.0929 mg/kg dry 50 ND 30% ND 0.0464 ND 30% 1,1-Dichloropropene 0.0929mg/kg dry 50 ND 0.0464 cis-1,3-Dichloropropene 0.0929mg/kg dry 50 ND 30% 0.0929 trans-1,3-Dichloropropene ND 0.186 mg/kg dry 50 ND 30% ND 0.0232 mg/kg dry ND Ethylbenzene 0.0464 50 30% 0.0929 Hexachlorobutadiene ND 0.186 mg/kg dry 50 ND ---30% 2-Hexanone ND 0.929 0.929 mg/kg dry 50 ND 30% ND 0.0464 ND 30% Isopropylbenzene 0.0929 mg/kg dry 50 ND 0.0464 0.0929 ND 30% 4-Isopropyltoluene mg/kg dry 50 ND 0.464 0.929 ND 30% Methylene chloride mg/kg dry 50 4-Methyl-2-pentanone (MiBK) ND 0.464 0.929 mg/kg dry ND 30% 50 Methyl tert-butyl ether (MTBE) 0.0464 ND 0.0929 mg/kg dry 50 ---ND ---30% Naphthalene ND 0.0929 0.186 mg/kg dry 50 ND 30% ND 0.0232 0.0464 mg/kg dry ND 30% n-Propylbenzene 50 ---Styrene ND 0.0464 0.0929 mg/kg dry 50 ND 30% ND 0.0232 ND 0.0464 50 30% 1.1.1.2-Tetrachloroethane mg/kg dry ---1,1,2,2-Tetrachloroethane ND 0.0464 0.0929 mg/kg dry 50 ND 30%

Apex Laboratories

Philip Manherz

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 90 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120899 - EPA 5035A							Soil					
Duplicate (0120899-DUP2)			Prepared	1: 12/21/20 1	4:25 Ana	lyzed: 12/28	/20 22:31					
QC Source Sample: Non-SDG (A0	L0888-02)											
Tetrachloroethene (PCE)	ND	0.0232	0.0464	mg/kg dr	y 50		ND				30%	
Toluene	ND	0.0464	0.0929	mg/kg dr	y 50		ND				30%	
1,2,3-Trichlorobenzene	ND	0.232	0.464	mg/kg dr	y 50		ND				30%	
1,2,4-Trichlorobenzene	ND	0.232	0.464	mg/kg dr	y 50		ND				30%	
1,1,1-Trichloroethane	ND	0.0232	0.0464	mg/kg dr	y 50		ND				30%	
1,1,2-Trichloroethane	ND	0.0232	0.0464	mg/kg dr	y 50		ND				30%	
Trichloroethene (TCE)	ND	0.0232	0.0464	mg/kg dr	y 50		ND				30%	
Trichlorofluoromethane	ND	0.186	0.186	mg/kg dr	y 50		ND				30%	
1,2,3-Trichloropropane	ND	0.0464	0.0929	mg/kg dr	y 50		ND				30%	
1,2,4-Trimethylbenzene	ND	0.0464	0.0929	mg/kg dr	y 50		ND				30%	
1,3,5-Trimethylbenzene	ND	0.0464	0.0929	mg/kg dr	y 50		ND				30%	
Vinyl chloride	ND	0.0232	0.0464	mg/kg dr	y 50		ND				30%	
m,p-Xylene	ND	0.0464	0.0929	mg/kg dr	y 50		ND				30%	
o-Xylene	ND	0.0232	0.0464	mg/kg dr	y 50		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 119 %	Limits: 80	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			99 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			107 %	79-	-120 %		"					
Matrix Spike (0120899-MS1)			Prepared	l: 12/22/20 (9:07 Ana	lyzed: 12/28	/20 17:32					
QC Source Sample: Non-SDG (A0	L0839-08)											
5035A/8260D												
Acetone	2.05	0.728	1.46	mg/kg dr	y 50	2.92	ND	70	36-164%			
Acrylonitrile	0.908	0.0728	0.146	mg/kg dr	•	1.46	ND	62	65-134%			Q-(
Benzene	1.41	0.00728	0.0146	mg/kg dr		1.46	ND	97	77-121%			
Bromobenzene	1.50	0.0182	0.0364	mg/kg dr	y 50	1.46	ND	103	78-121%			
Bromochloromethane	1.27	0.0364	0.0728	mg/kg dr	•	1.46	ND	87	78-125%			
Bromodichloromethane	1.41	0.0364	0.0728	mg/kg dr		1.46	ND	97	75-127%			
Bromoform	1.39	0.0728	0.146	mg/kg dr	•	1.46	ND	95	67-132%			
Bromomethane	1.21	0.728	0.728	mg/kg dr	y 50	1.46	ND	83	53-143%			
2-Butanone (MEK)	1.73	0.364	0.728	mg/kg dr	-	2.92	ND	59	51-148%			
n-Butylbenzene	1.37	0.0364	0.0728	mg/kg dr		1.46	ND	94	70-128%			
sec-Butylbenzene	1.43	0.0364	0.0728	mg/kg dr		1.46	ND	98	73-126%			
tert-Butylbenzene	1.40	0.0364	0.0728	mg/kg dr	y 50	1.46	ND	96	73-125%			

Apex Laboratories

Philip Monterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 91 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D RPD Detection Reporting Spike Source % REC Result Units Dilution % REC RPD Analyte Limit Limit Amount Result Limits Limit Notes Batch 0120899 - EPA 5035A Soil Matrix Spike (0120899-MS1) Prepared: 12/22/20 09:07 Analyzed: 12/28/20 17:32 QC Source Sample: Non-SDG (A0L0839-08) mg/kg dry Carbon disulfide 1.29 0.364 0.728 50 1.46 ND 88 63-132% 0.07280.0364 Carbon tetrachloride 1.52 mg/kg dry 50 1.46 ND 104 70-135% Chlorobenzene 1.44 0.0182 0.0364 mg/kg dry 50 1.46 ND 98 79-120% Chloroethane 1.15 0.728 0.728 mg/kg dry 50 1.46 ND 79 59-139% O-54i Chloroform 1.41 0.0364 0.0728 mg/kg dry 50 1.46 ND 97 78-123% 1.08 1.46 ND 74 Q-54j Chloromethane 0.364 0.364 mg/kg dry 50 50-136% 2-Chlorotoluene 1.49 0.0364 0.0728mg/kg dry 50 1.46 ND 102 75-122% 0.0364 ND 97 4-Chlorotoluene 1.41 0.0728 mg/kg dry 50 1.46 72-124% ---Dibromochloromethane 1.46 0.0728 0.146 mg/kg dry 50 1.46 ND 100 74-126% 1,2-Dibromo-3-chloropropane 1.39 0.182 0.364 mg/kg dry 50 1.46 ND 95 61-132% 1,2-Dibromoethane (EDB) 1.51 0.0364 0.0728 mg/kg dry 50 1.46 ND 103 78-122% 1.35 0.0364 0.0728ND 92 78-125% Dibromomethane mg/kg dry 50 1.46 105 1,2-Dichlorobenzene 1.53 0.0182 0.0364 mg/kg dry 50 1.46 ND 78-121% 1.55 0.0182 0.0364 1.46 ND 106 77-121% 1,3-Dichlorobenzene mg/kg dry 50 0.0182 1,4-Dichlorobenzene 1.45 0.0364 mg/kg dry 50 1.46 ND 99 75-120% Dichlorodifluoromethane 0.871 0.0728 0.146 mg/kg dry 50 1.46 ND 60 29-149% ___ 1,1-Dichloroethane 1.36 0.0182 0.0364 mg/kg dry 50 1.46 ND 93 76-125% 1.34 0.0182 1.46 ND 92 73-128% 1,2-Dichloroethane (EDC) 0.0364 mg/kg dry 50 87 70-131% 1,1-Dichloroethene 1.26 0.01820.0364 mg/kg dry 50 1.46 ND 0.0182 cis-1,2-Dichloroethene 1.36 0.0364 mg/kg dry 50 1.46 ND 94 77-123% 0.0182 mg/kg dry 1.46 ND 94 74-125% trans-1,2-Dichloroethene 1.37 0.0364 50 0.0182 1,2-Dichloropropane 1.30 0.0364 mg/kg dry 50 1.46 ND 89 76-123% ---1,3-Dichloropropane 1.39 0.0364 0.0728 mg/kg dry 50 1.46 ND 95 77-121% 0.0364 1.46 ND 124 67-133% Q-54c 2,2-Dichloropropane 1.80 0.0728mg/kg dry 50 ---0.0364 0.0728 1.46 95 76-125% 1,1-Dichloropropene 1.39 mg/kg dry 50 ND 101 74-126% 1.48 0.0364 0.0728 1.46 ND cis-1,3-Dichloropropene mg/kg dry 50 trans-1,3-Dichloropropene 1.37 0.0728 0.146 mg/kg dry 1.46 ND 94 71-130% 50 Ethylbenzene 100 1.46 0.0182 0.0364 mg/kg dry 50 1.46 ND 76-122% Hexachlorobutadiene 1.49 0.0728 0.146 mg/kg dry 50 1.46 ND 102 61-135% 2-Hexanone 2.45 0.728 0.728 2 92 ND 84 53-145% Q-54k mg/kg dry 50 Isopropylbenzene 1.36 0.0364 0.0728 mg/kg dry 50 1.46 ND 93 68-134% 0.0364 0.0728 50 1.46 ND 93 4-Isopropyltoluene 1.36 73-127% mg/kg dry ---Methylene chloride 1.28 0.364 0.728 mg/kg dry 50 1.46 ND 88 70-128%

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 92 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source % REC Analyte Result Units Dilution RPD Limit Limit Amount Result Limits Limit Notes Batch 0120899 - EPA 5035A Soil Matrix Spike (0120899-MS1) Prepared: 12/22/20 09:07 Analyzed: 12/28/20 17:32 QC Source Sample: Non-SDG (A0L0839-08) 4-Methyl-2-pentanone (MiBK) 2.56 0.364 0.728 mg/kg dry 50 2.92 ND 88 65-135% Methyl tert-butyl ether (MTBE) 0.0364 0.07281.46 1.39 mg/kg dry 50 ND 95 73-125% Naphthalene 1.31 0.0728 0.146 mg/kg dry 50 1.46 ND 90 62-129% n-Propylbenzene 1.39 0.01820.0364 mg/kg dry 50 1.46 ND 95 73-125% 1.37 0.0364 0.0728 mg/kg dry 50 1.46 ND 94 76-124% Styrene 1,1,1,2-Tetrachloroethane 1.51 0.0182 1.46 ND 104 78-125% 0.0364mg/kg dry 50 1,1,2,2-Tetrachloroethane 1.28 0.03640.0728mg/kg dry 50 1.46 ND 88 70-124% 1.46 Tetrachloroethene (PCE) 0.0182 ND 73-128% 1.62 0.0364 mg/kg dry 50 111 Toluene 1.36 0.0364 0.0728 mg/kg dry 50 1.46 ND 93 77-121% 1,2,3-Trichlorobenzene 1.53 0.182 0.364 mg/kg dry 50 1.46 ND 105 66-130% 1,2,4-Trichlorobenzene 1.42 0.182 0.364 mg/kg dry 50 1.46 ND 98 67-129% 0.0182 1,1,1-Trichloroethane 1.50 0.0364 mg/kg dry 1.46 ND 103 73-130% 50 0.0182 1.46 78-121% 1,1,2-Trichloroethane 1.46 0.0364 mg/kg dry 50 ND 100 0.0182 Trichloroethene (TCE) 1.55 0.0364 mg/kg dry 1.46 ND 106 77-123% 50 0.146 Q-54g Trichlorofluoromethane 1.64 0.146 mg/kg dry 50 1.46 ND 113 62-140% 1,2,3-Trichloropropane 1.39 0.0364 0.0728 mg/kg dry 50 1.46 ND 95 73-125% ___ 1,2,4-Trimethylbenzene 1.39 0.0364 0.0728 mg/kg dry 50 1.46 ND 96 75-123% 1,3,5-Trimethylbenzene 0.0364 1.46 ND 98 73-124% 1.43 0.0728mg/kg dry 50 Vinyl chloride 1.08 0.0182 1.46 ND 74 56-135% 0.0364mg/kg dry 50 0.0364 0.0728 2.92 93 m,p-Xylene 2.72 mg/kg dry 50 ND 77-124% 0.0182 0.0364 1.46 ND 91 77-123% o-Xylene 1.32 mg/kg dry 50 Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 96 % 80-120 % 4-Bromofluorobenzene (Surr) 100 % 79-120 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 93 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0121020 - EPA 3546							Soli	d				
Blank (0121020-BLK1)			Prepared	: 12/31/20	06:56 Anal	lyzed: 12/31	/20 16:22					C-0
EPA 8082A												
Aroclor 1016	ND	0.00667	0.0133	mg/kg	1							
Aroclor 1221	ND	0.00667	0.0133	mg/kg	1							
Aroclor 1232	ND	0.00667	0.0133	mg/kg	1							
Aroclor 1242	ND	0.00667	0.0133	mg/kg	1							
Aroclor 1248	ND	0.00667	0.0133	mg/kg	1							
Aroclor 1254	ND	0.00667	0.0133	mg/kg	1							
Aroclor 1260	ND	0.00667	0.0133	mg/kg	1							
Surr: Decachlorobiphenyl (Surr)		Recove	ery: 104 %	Limits: 60	-125 %	Dilt	ution: 1x					
LCS (0121020-BS1)			Prepared	: 12/31/20 ()6:56 Anal	yzed: 12/31	/20 16:39					C-0'
EPA 8082A												
Aroclor 1016	1.10	0.0100	0.0200	mg/kg	1	1.25		88	47-134%			
Aroclor 1260	1.37	0.0100	0.0200	mg/kg	1	1.25		110	53-140%			
Surr: Decachlorobiphenyl (Surr)		Recove	ery: 109 %	Limits: 60	-125 %	Dilt	ution: 1x					
Duplicate (0121020-DUP2)			Prepared	: 12/31/20 ()6:56 Anal	yzed: 01/04	/21 08:54					C-0'
QC Source Sample: CB-1 (A0L06	598-01RE1)											
EPA 8082A												
Aroclor 1016	ND	0.00935	0.0187	mg/kg	1		ND				30%	
Aroclor 1221	ND	0.00935	0.0187	mg/kg	1		ND				30%	
Aroclor 1232	ND	0.0187	0.0187	mg/kg	1		ND				30%	
Aroclor 1242	ND	0.00935	0.0187	mg/kg	1		ND				30%	
Aroclor 1248	ND	0.00935	0.0187	mg/kg	1		ND				30%	
Aroclor 1254	ND	0.00935	0.0187	mg/kg	1		ND				30%	
Aroclor 1260	ND	0.00935	0.0187	mg/kg	1		ND				30%	
Surr: Decachlorobiphenyl (Surr)		Recon	very: 79 %	Limits: 60	-125 %	Dilt	ution: 1x					
Matrix Spike (0121020-MS2)			Prepared	: 12/31/20 (06:56 Anal	yzed: 01/04	/21 10:05					C-0
OC Source Sample: CB-7 (A0L06	598-08RE1)											
EPA 8082A	J VOILLI											
Aroclor 1016	0.915	0.00935	0.0187	mg/kg	1	1.17	ND	78	47-134%			
	0.713	0.00733	0.010/	mg/ng	1		1111					

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A Detection Reporting Spike Source % REC **RPD** % REC Analyte Result Ĺimit Units Dilution Amount Result Limits RPD Limit Limit Notes Batch 0121020 - EPA 3546 Solid Matrix Spike (0121020-MS2) Prepared: 12/31/20 06:56 Analyzed: 01/04/21 10:05 C-07 QC Source Sample: CB-7 (A0L0698-08RE1) Surr: Decachlorobiphenyl (Surr) Recovery: 96 % Limits: 60-125 % Dilution: 1x

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 95 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoch	lorine Pe	sticides	by EPA 80	081B					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0121015 - EPA 3546							Soli	d				
Blank (0121015-BLK1)			Prepared	12/30/20	11:45 Anal	yzed: 12/31	/20 13:20					C-0
EPA 8081B												
Aldrin	ND	0.00333	0.00667	mg/kg	1							
alpha-BHC	ND	0.00333	0.00667	mg/kg	1							
beta-BHC	ND	0.00333	0.00667	mg/kg	1							
delta-BHC	ND	0.00333	0.00667	mg/kg	1							
gamma-BHC (Lindane)	ND	0.00333	0.00667	mg/kg	1							
cis-Chlordane	ND	0.00333	0.00667	mg/kg	1							
trans-Chlordane	ND	0.00333	0.00667	mg/kg	1							
4,4'-DDD	ND	0.00333	0.00667	mg/kg	1							
4,4'-DDE	ND	0.00333	0.00667	mg/kg	1							
4,4'-DDT	ND	0.00333	0.00667	mg/kg	1							
Dieldrin	ND	0.00333	0.00667	mg/kg	1							
Endosulfan I	ND	0.00333	0.00667	mg/kg	1							
Endosulfan II	ND	0.00333	0.00667	mg/kg	1							
Endosulfan sulfate	ND	0.00333	0.00667	mg/kg	1							
Endrin	ND	0.00333	0.00667	mg/kg	1							
Endrin Aldehyde	ND	0.00333	0.00667	mg/kg	1							
Endrin ketone	ND	0.00333	0.00667	mg/kg	1							
Heptachlor	ND	0.00333	0.00667	mg/kg	1							
Heptachlor epoxide	ND	0.00333	0.00667	mg/kg	1							
Methoxychlor	ND	0.0100	0.0200	mg/kg	1							
Chlordane (Technical)	ND	0.100	0.200	mg/kg	1							
Toxaphene (Total)	ND	0.100	0.200	mg/kg	1							
Surr: 2,4,5,6-TCMX (Surr)		Reco	very: 60 %	Limits: 42	?-129 %	Dilı	ution: 1x					
Decachlorobiphenyl (Surr)			90 %	55	-130 %		"					
LCS (0121015-BS1)			Prepared	: 12/30/20	11:45 Anal	yzed: 12/31	/20 13:38					C-(
EPA 8081B			-									
Aldrin	0.159	0.00500	0.0100	mg/kg	1	0.250		63	45-136%			
alpha-BHC	0.207	0.00500	0.0100	mg/kg		0.250		83	45-137%			
beta-BHC	0.205	0.00500	0.0100	mg/kg		0.250		82	50-136%			
delta-BHC	0.232	0.00500	0.0100	mg/kg		0.250		93	47-139%			
gamma-BHC (Lindane)	0.208	0.00500	0.0100	mg/kg		0.250			49-135%			
cis-Chlordane	0.218	0.00500	0.0100	mg/kg		0.250			54-133%			

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

			Organoch	Iorine Pe	sticides	by EPA 80	081B					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0121015 - EPA 3546							Soli	d				
LCS (0121015-BS1)			Prepared	: 12/30/20	11:45 Anal	yzed: 12/31	/20 13:38					C-05
trans-Chlordane	0.213	0.00500	0.0100	mg/kg	1	0.250		85	53-135%			
4,4'-DDD	0.268	0.00500	0.0100	mg/kg	1	0.250		107	56-139%			
4,4'-DDE	0.246	0.00500	0.0100	mg/kg	1	0.250		98	56-134%			
4,4'-DDT	0.305	0.00500	0.0100	mg/kg	1	0.250		122	50-141%			
Dieldrin	0.258	0.00500	0.0100	mg/kg	1	0.250		103	56-136%			
Endosulfan I	0.239	0.00500	0.0100	mg/kg	1	0.250		96	53-132%			
Endosulfan II	0.272	0.00500	0.0100	mg/kg	1	0.250		109	53-134%			
Endosulfan sulfate	0.280	0.00500	0.0100	mg/kg	1	0.250		112	55-136%			
Endrin	0.278	0.00500	0.0100	mg/kg	1	0.250		111	57-140%			
Endrin Aldehyde	0.220	0.00500	0.0100	mg/kg	1	0.250		88	35-137%			
Endrin ketone	0.293	0.00500	0.0100	mg/kg	1	0.250		117	55-136%			
Heptachlor	0.208	0.00500	0.0100	mg/kg	1	0.250		83	47-136%			
Heptachlor epoxide	0.215	0.00500	0.0100	mg/kg	1	0.250		86	52-136%			
Methoxychlor	0.316	0.0150	0.0300	mg/kg	1	0.250		127	52-143%			
Surr: 2,4,5,6-TCMX (Surr)		Reco	very: 74 %	Limits: 42	-129 %	Dilt	ution: 1x					
Decachlorobiphenyl (Surr)			96 %	55	-130 %		"					
Duplicate (0121015-DUP1)			Prepared	: 12/30/20	11:45 Anal	yzed: 12/31	/20 14:29					C-05, R-04
OC Source Sample: CB-1 (A0L0	698-01RE1)											
EPA 8081B												
Aldrin	ND	0.0169	0.0338	mg/kg			ND				30%	
alpha-BHC	ND	0.0169	0.0338	mg/kg	2		ND				30%	
beta-BHC	ND	0.0169	0.0338	mg/kg	2		ND				30%	
delta-BHC	ND	0.0169	0.0338	mg/kg	2		ND				30%	
gamma-BHC (Lindane)	ND	0.0169	0.0338	mg/kg	2		ND				30%	
cis-Chlordane	ND	0.0169	0.0338	mg/kg			ND				30%	
trans-Chlordane	ND	0.0169	0.0338	mg/kg	2		ND				30%	
4,4'-DDD	ND	0.0591	0.0591	mg/kg	2		ND				30%	R-
4,4'-DDE	ND	0.0169	0.0338	mg/kg	2		ND				30%	
4,4'-DDT	ND	0.160	0.160	mg/kg	2		ND				30%	R-
Dieldrin	ND	0.0169	0.0338	mg/kg	2		ND				30%	
Endosulfan I	ND	0.0169	0.0338	mg/kg	2		ND				30%	
Endosulfan II	ND	0.0169	0.0338	mg/kg	2		ND				30%	

Apex Laboratories

Philip Nevenberg

ND

0.0338

0.0338

Endosulfan sulfate

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ND

30%

Philip Nerenberg, Lab Director

Page 97 of 118

2

mg/kg



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0121015 - EPA 3546							Soli	d				
Duplicate (0121015-DUP1)			Prepared	: 12/30/20	11:45 Anal	yzed: 12/31/	/20 14:29					C-05, R-04
QC Source Sample: CB-1 (A0L0	698-01RE1)											
Endrin	ND	0.0169	0.0338	mg/kg	2		ND				30%	
Endrin Aldehyde	ND	0.0354	0.0354	mg/kg	2		ND				30%	R-02
Endrin ketone	ND	0.0338	0.0338	mg/kg	2		ND				30%	
Heptachlor	ND	0.0169	0.0338	mg/kg	2		ND				30%	
Heptachlor epoxide	ND	0.0169	0.0338	mg/kg	2		ND				30%	
Methoxychlor	ND	0.101	0.101	mg/kg	2		ND				30%	
Chlordane (Technical)	ND	0.506	1.01	mg/kg	2		ND				30%	
Toxaphene (Total)	ND	0.506	1.01	mg/kg	2		ND				30%	
Surr: 2,4,5,6-TCMX (Surr)		Recov	very: 77 %	Limits: 42	?-129 %	Dilı	ution: 2x					
Decachlorobiphenyl (Surr)			143 %	55	-130 %		"					S-03
Matrix Spike (0121015-MS1)			Prepared	: 12/30/20	11:45 Anal	yzed: 01/04/	/21 13:54					C-05
QC Source Sample: CB-7 (A0L0	698-08RE1)											
EPA 8081B												
Aldrin	0.151	0.00420	0.00840	mg/kg	1	0.210	ND	72	45-136%			
alpha-BHC	0.186	0.00420	0.00840	mg/kg	1	0.210	ND	89	45-137%			
beta-BHC	0.213	0.00840	0.00840	mg/kg	1	0.210	ND	101	50-136%			
delta-BHC	0.218	0.00420	0.00840	mg/kg	1	0.210	ND	104	47-139%			
gamma-BHC (Lindane)	0.190	0.00420	0.00840	mg/kg	1	0.210	ND	90	49-135%			
cis-Chlordane	0.188	0.00420	0.00840	mg/kg	1	0.210	ND	90	54-133%			
trans-Chlordane	0.185	0.0126	0.0126	mg/kg	1	0.210	ND	82	53-135%			R-02
4,4'-DDD	0.188	0.00420	0.00840	mg/kg	1	0.210	ND	89	56-139%			
4,4'-DDE	0.221	0.00420	0.00840	mg/kg	1	0.210	ND	105	56-134%			
4,4'-DDT	0.227	0.00840	0.00840	mg/kg	1	0.210	ND	108	50-141%			
Dieldrin	0.193	0.00420	0.00840	mg/kg		0.210	ND	92	56-136%			
Endosulfan I	0.193	0.00420	0.00840	mg/kg	1	0.210	ND	92	53-132%			
Endosulfan II	0.185	0.00420	0.00840	mg/kg	1	0.210	ND	88	53-134%			
Endosulfan sulfate	0.226	0.00420	0.00840	mg/kg	1	0.210	ND	108	55-136%			
Endrin	0.194	0.00420	0.00840	mg/kg	1	0.210	ND	93	57-140%			
Endrin Aldehyde	0.160	0.00420	0.00840	mg/kg	1	0.210	ND	76	35-137%			
Endrin ketone	0.205	0.00420	0.00840	mg/kg	1	0.210	ND	97	55-136%			
Heptachlor	0.196	0.00420	0.00840	mg/kg	1	0.210	ND	93	47-136%			
Heptachlor epoxide	0.187	0.00420	0.00840	mg/kg	1	0.210	ND	89	52-136%			

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 98 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B Detection Reporting Spike Source % REC **RPD** Analyte Result Ĺimit Units Dilution Amount Result % REC Limits RPD Limit Limit Notes Batch 0121015 - EPA 3546 Solid Matrix Spike (0121015-MS1) Prepared: 12/30/20 11:45 Analyzed: 01/04/21 13:54 C-05 QC Source Sample: CB-7 (A0L0698-08RE1) 0.265 0.0126 0.210 Methoxychlor 0.0252 ND 126 52-143% mg/kg Surr: 2,4,5,6-TCMX (Surr) Recovery: 82 % Limits: 42-129 % Dilution: 1x Decachlorobiphenyl (Surr) 55-130 % 85 %

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 99 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Spike % REC RPD Reporting Source Analyte Result Limit Units Dilution Amount Result % REC RPD Limit Limits Limit Notes Batch 0120994 - EPA 3546 Solid Blank (0120994-BLK1) Prepared: 12/30/20 11:44 Analyzed: 12/30/20 16:41 EPA 8270E Acenaphthene ND 0.00665 0.0134 mg/kg ND 0.00665 0.0134 mg/kg Acenaphthylene 1 Anthracene ND 0.00665 0.0134 mg/kg 1 Benz(a)anthracene ND 0.00665 0.0134 mg/kg 1 ND 0.0100 0.0200 Benzo(a)pyrene mg/kg 1 0.0100 0.0200 Benzo(b)fluoranthene ND mg/kg 1 Benzo(k)fluoranthene ND 0.0100 0.0200 mg/kg 1 0.00665 0.0134 ND Benzo(g,h,i)perylene mg/kg 1 Chrysene ND 0.00665 0.0134 mg/kg 1 Dibenz(a,h)anthracene ND 0.00665 0.0134 1 mg/kg Fluoranthene ND 0.006650.0134 mg/kg 1 0.00665 0.0134 ND Fluorene 1 mg/kg Indeno(1,2,3-cd)pyrene ND 0.00665 0.0134 mg/kg 1 1-Methylnaphthalene ND 0.0134 0.0266 mg/kg 1 0.0134 2-Methylnaphthalene ND 0.0266 mg/kg 1 Naphthalene ND 0.0134 0.0266 mg/kg 1 ---------Phenanthrene ND 0.006650.0134 mg/kg 1 ND 0.00665 0.0134 Pyrene mg/kg 1 ---Carbazole ND 0.0100 0.0200 mg/kg 1 Dibenzofuran ND 0.00665 0.0134 mg/kg 1 Bis(2-ethylhexyl)phthalate ND 0.100 0.200 mg/kg 1 Butyl benzyl phthalate ND 0.0665 0.134 mg/kg 1 0.0665Diethylphthalate ND 0.134 mg/kg 1 mg/kg Dimethylphthalate ND 0.0665 0.134 1 ND 0.0665 0.134 Di-n-butylphthalate mg/kg 1 Di-n-octyl phthalate ND 0.0665 0.134 mg/kg 1 Surr: Nitrobenzene-d5 (Surr) Recovery: 88 % Limits: 37-122 % Dilution: 1x 2-Fluorobiphenyl (Surr) 76 % 44-120 % Phenol-d6 (Surr) 88 % 33-122 % p-Terphenyl-d14 (Surr) 92 % 54-127 % 2-Fluorophenol (Surr) 77% 35-120 % 2,4,6-Tribromophenol (Surr) 78 % 39-132 %

Apex Laboratories

Philip Manherz

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 100 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Spike % REC RPD Reporting Source Analyte Result Limit Units Dilution Amount Result % REC RPD Limit Limits Limit Notes Batch 0120994 - EPA 3546 Solid LCS (0120994-BS1) Prepared: 12/30/20 11:44 Analyzed: 12/30/20 17:18 Q-18 EPA 8270E Acenaphthene 3.69 0.0200 0.0401 mg/kg 2 4.00 92 40-123% 2 4.00 100 4.02 0.0200 0.0401 mg/kg 32-132% Acenaphthylene Anthracene 3.72 0.0200 0.0401 mg/kg 2 4.00 93 47-123% Benz(a)anthracene 3.67 0.0200 0.0401 2 4.00 92 49-126% mg/kg 3.59 0.0300 0.0600 2 4.00 90 45-129% Benzo(a)pyrene mg/kg 0.0300 0.0600 2 4.00 89 45-132% Benzo(b)fluoranthene 3.55 mg/kg Benzo(k)fluoranthene 3.67 0.0300 0.0600 2 4.00 92 47-132% mg/kg 0.0200 0.0401 2 4.00 3.94 98 43-134% Benzo(g,h,i)perylene mg/kg Chrysene 3.50 0.0200 0.0401 mg/kg 2 4.00 87 50-124% Dibenz(a,h)anthracene 3.70 0.0200 0.0401 2 4.00 92 45-134% mg/kg Fluoranthene 3.81 0.02000.0401 mg/kg 2 4.00 95 50-127% 0.0200 0.0401 2 4.00 92 43-125% Fluorene 3.66 mg/kg 0.0200 Indeno(1,2,3-cd)pyrene 3.64 0.0401 mg/kg 2 4.00 91 45-133% 3.60 0.0401 0.0800 2 4.00 90 40-120% 1-Methylnaphthalene mg/kg 2-Methylnaphthalene 3.65 0.0401 0.0800mg/kg 2 4.00 91 38-122% Naphthalene 3.42 0.0401 0.0800 mg/kg 2 4.00 86 35-123% ------2 Phenanthrene 3.42 0.02000.0401 mg/kg 4.00 85 50-121% 0.0200 0.0401 2 4.00 92 47-127% Pyrene 3.68 mg/kg ---2 Carbazole 3.84 0.0300 0.0600 mg/kg 4.00 96 50-123% Dibenzofuran 3.58 0.0200 0.0401 mg/kg 2 4.00 90 44-120% 2 Bis(2-ethylhexyl)phthalate 3.82 0.300 0.600 mg/kg 4.00 96 51-133% Butyl benzyl phthalate 4.07 0.200 0.401 mg/kg 2 4.00 102 48-132% 0.200 2 Diethylphthalate 3.75 0.401 mg/kg 4.00 94 50-124% 2 97 Dimethylphthalate 3.86 0.200 0.401 mg/kg 4.00 48-124% 3.97 0.200 0.401 2 4.00 99 Di-n-butylphthalate mg/kg 51-128% mg/kg 45-140% Di-n-octyl phthalate 4.06 0.200 0.401 2 101 Surr: Nitrobenzene-d5 (Surr) Recovery: 85 % Limits: 37-122 % Dilution: 2x 2-Fluorobiphenyl (Surr) 85 % 44-120 % Phenol-d6 (Surr) 91% 33-122 % p-Terphenyl-d14 (Surr) 92 % 54-127 % 2-Fluorophenol (Surr) 82 % 35-120 % 2,4,6-Tribromophenol (Surr) 98 % 39-132 %

Apex Laboratories

Philip Manherz

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 101 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 0120994 - EPA 3546 Solid **Duplicate (0120994-DUP3)** Prepared: 12/30/20 11:44 Analyzed: 12/30/20 19:45 QC Source Sample: CB-1 (A0L0698-01) EPA 8270E 0.911 Q-17 ND 1.83 40 0.957 30% Acenaphthene mg/kg 30% Acenaphthylene ND 0.911 40 ND 1.83 mg/kg 0.911 1.83 Anthracene 3.54 mg/kg 40 3.07 14 30% Benz(a)anthracene 16.5 0.911 1.83 mg/kg 40 14.4 13 30% 22.5 1.37 2.74 21.4 5 30% Benzo(a)pyrene 40 mg/kg 28.7 1.37 2.74 27.3 5 Benzo(b)fluoranthene mg/kg 40 30% Benzo(k)fluoranthene 2 1.37 2.74 30% mg/kg 40 18.6 18.9 21.5 0.911 1.83 21.1 2 30% Benzo(g,h,i)perylene mg/kg 40 0.911 30% 4 Chrysene 27.7 1.83 mg/kg 40 ---26.6 ------Dibenz(a,h)anthracene 3.05 0.911 1.83 mg/kg 40 2.90 5 30% Fluoranthene 0.911 1.83 41.2 8 30% 44.7 40 mg/kg Fluorene 0.918 0.911 1.83 40 ND Q-17, J mg/kg 30% 0.911 1.83 21.5 40 21.1 2 30% Indeno(1,2,3-cd)pyrene mg/kg 1-Methylnaphthalene ND 1.83 3.65 mg/kg 40 ND 30% ND 30% 2-Methylnaphthalene ND 1.83 3.65 mg/kg 40 ------Naphthalene ND 1.83 3.65 mg/kg 40 ND 30% Phenanthrene 18.0 0.911 1.83 mg/kg 40 17.2 5 30% Pyrene 41.0 0.911 1.83 mg/kg 40 37.4 9 30% Carbazole 5.98 1.37 2.74 mg/kg 40 5.29 12 30% ---Dibenzofuran ND 0.911 1.83 mg/kg 40 ND 30% ND 13.7 27.4 ND 30% Bis(2-ethylhexyl)phthalate mg/kg 40 ---Butyl benzyl phthalate ND 9.11 18.3 mg/kg 40 ND 30% Diethylphthalate ND 9.11 18.3 mg/kg 40 ND 30% 30% Dimethylphthalate ND 9.11 18.3 mg/kg 40 ND Di-n-butylphthalate ND 9.11 18.3 40 ND 30% mg/kg ---------9.11 Di-n-octyl phthalate ND 18.3 mg/kg 40 ND 30% Surr: Nitrobenzene-d5 (Surr) Recovery: 56% Limits: 37-122 % Dilution: 40x S-05 2-Fluorobiphenyl (Surr) 71 % 44-120 % S-05 Phenol-d6 (Surr) 64 % 33-122 % S-05 p-Terphenyl-d14 (Surr) 85 % 54-127 % S-05 2-Fluorophenol (Surr) 57% 35-120 % S-05 2,4,6-Tribromophenol (Surr) 186 % 39-132 % S-05

Apex Laboratories

Philip Manherz

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 102 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Detection Reporting Spike Source % REC **RPD** % REC Limits RPD Analyte Result Ĺimit Units Dilution Amount Result Limit Notes Limit

Batch 0120994 - EPA 3546 Solid

Apex Laboratories

Philip Manhera

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 103 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	letals by	EPA 6020	B (ICPMS	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012474 - EPA 3051A							Soli	d				
Blank (1012474-BLK1)			Prepared	: 01/04/21	13:11 Anal	yzed: 01/04/	/21 15:39					
EPA 6020B												
Antimony	ND	0.481	0.962	mg/kg	10							
Arsenic	ND	0.481	0.962	mg/kg	10							
Beryllium	ND	0.0962	0.192	mg/kg	10							
Cadmium	ND	0.0962	0.192	mg/kg	10							
Chromium	ND	0.481	0.962	mg/kg	10							
Copper	ND	0.962	1.92	mg/kg	10							
Lead	ND	0.0962	0.192	mg/kg	10							
Mercury	ND	0.0385	0.0769	mg/kg	10							
Nickel	ND	0.962	1.92	mg/kg	10							
Selenium	ND	0.481	0.962	mg/kg	10							
Silver	ND	0.0962	0.192	mg/kg	10							
Thallium	ND	0.0962	0.192	mg/kg	10							
Zinc	ND	1.92	3.85	mg/kg	10							
LCS (1012474-BS1)			Prepared	: 01/04/21	13:11 Anal	yzed: 01/04/	/21 15:44					
EPA 6020B												
Antimony	23.9	0.500	1.00	mg/kg	10	25.0		95	80-120%			
Arsenic	50.9	0.500	1.00	mg/kg	10	50.0		102	80-120%			
Beryllium	27.1	0.100	0.200	mg/kg	10	25.0		108	80-120%			
Cadmium	46.6	0.100	0.200	mg/kg	10	50.0		93	80-120%			
Chromium	52.3	0.500	1.00	mg/kg	10	50.0		105	80-120%			
Copper	54.2	1.00	2.00	mg/kg	10	50.0		108	80-120%			
Lead	49.7	0.100	0.200	mg/kg	10	50.0		99	80-120%			
Mercury	0.995	0.0400	0.0800	mg/kg	10	1.00		100	80-120%			
Nickel	54.5	1.00	2.00	mg/kg	10	50.0		109	80-120%			
Selenium	23.3	0.500	1.00	mg/kg	10	25.0		93	80-120%			
Silver	26.0	0.100	0.200	mg/kg	10	25.0		104	80-120%			
Thallium	26.4	0.100	0.200	mg/kg		25.0		106	80-120%			
Zinc	51.4	2.00	4.00	mg/kg		50.0		103	80-120%			

Duplicate (1012474-DUP1)

Prepared: 01/04/21 13:11 Analyzed: 01/04/21 16:26

QC Source Sample: CB-4 (A0L0698-04)

Philip Nevenberg

EPA 6020B

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 104 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total M	letals by	EPA 6020	B (ICPMS	5)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1012474 - EPA 3051A							Soli	d				
Duplicate (1012474-DUP1)			Prepared	: 01/04/21	13:11 Ana	lyzed: 01/04/	/21 16:26					
QC Source Sample: CB-4 (A0L00	<u>698-04)</u>											
Antimony	7.29	0.541	1.08	mg/kg	10		2.48			98	20%	Q-04, Q-0
Arsenic	3.77	0.541	1.08	mg/kg	10		3.43			10	20%	
Beryllium	ND	0.108	0.216	mg/kg	10		ND				20%	
Cadmium	2.16	0.108	0.216	mg/kg	10		2.24			3	20%	
Chromium	283	0.541	1.08	mg/kg	10		276			3	20%	
Copper	146	1.08	2.16	mg/kg	10		143			2	20%	
Lead	63.0	0.108	0.216	mg/kg	10		63.9			1	20%	
Mercury	0.388	0.0433	0.0866	mg/kg	10		0.375			3	20%	
Nickel	36.1	1.08	2.16	mg/kg	10		32.2			12	20%	
Selenium	ND	0.541	1.08	mg/kg	10		ND				20%	
Silver	0.237	0.108	0.216	mg/kg	10		0.223			6	20%	
Thallium	ND	0.108	0.216	mg/kg	10		ND				20%	
Zinc	596	2.16	4.33	mg/kg	10		606			2	20%	
Matrix Spike (1012474-MS1)			Prepared	: 01/04/21	13:11 Ana	lyzed: 01/04/	/21 16:32					
QC Source Sample: CB-4 (A0L00	698-04)											
EPA 6020B	• • • •	0.554										
Antimony	28.6	0.554	1.11	mg/kg		27.7	2.48	94	75-125%			
Arsenic	56.1	0.554	1.11	mg/kg		55.4	3.43	95	75-125%			
Beryllium	27.1	0.111	0.222	mg/kg		27.7	ND	98	75-125%			
Cadmium	51.9	0.111	0.222	mg/kg		55.4	2.24	90	75-125%			0.02.0.0
Chromium	183	0.554	1.11	mg/kg		55.4	276	-167	75-125%			Q-03, Q-0
Copper	220	1.11	2.22	mg/kg		55.4	143	140	75-125%			A-01, Q-0
Lead	115	0.111	0.222	mg/kg		55.4	63.9	93	75-125%			
Mercury	1.41	0.0443	0.0887	mg/kg		1.11	0.375	93	75-125%			
Nickel	88.9	1.11	2.22	mg/kg		55.4	32.2	102	75-125%			
Selenium	25.8	0.554	1.11	mg/kg		27.7	ND	93	75-125%			
Silver	27.4	0.111	0.222	mg/kg		27.7	0.223	98	75-125%			
Thallium	28.0	0.111	0.222	mg/kg	10	27.7	ND	101	75-125%			
Zinc	627	2.22	4.43	mg/kg	10	55.4	606	38	75-125%			Q-0

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Weig	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120933 - Total Solids (Dry Weigl	nt)					Soil					
Duplicate (0120933-DUP1)			Prepared	: 12/29/20	09:00 Anal	yzed: 12/30	/20 07:25					
QC Source Sample: Non-SDG (A0	L0953-01)											
% Solids	93.2	1.00	1.00	%	1		93.7			0.5	10%	
Duplicate (0120933-DUP2)			Prepared	: 12/29/20	09:00 Anal	yzed: 12/30	/20 07:25					TEMP
QC Source Sample: Non-SDG (A0	L0955-02)											
% Solids	74.8	1.00	1.00	%	1		75.5			0.9	10%	
Duplicate (0120933-DUP3)			Prepared	: 12/29/20	18:10 Anal	yzed: 12/30	/20 07:25					
QC Source Sample: Non-SDG (A0	L0978-02)											
% Solids	78.7	1.00	1.00	%	1		78.1			0.7	10%	
Duplicate (0120933-DUP4)			Prepared	: 12/29/20	18:10 Anal	yzed: 12/30	/20 07:25					
QC Source Sample: Non-SDG (A0	L0982-02)											
% Solids	73.0	1.00	1.00	%	1		73.5			0.8	10%	
Duplicate (0120933-DUP5)			Prepared	: 12/29/20	18:10 Anal	yzed: 12/30	/20 07:25					
QC Source Sample: Non-SDG (A0	L0985-04)											
% Solids	69.4	1.00	1.00	%	1		69.8			0.6	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Wei	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 0120974 - Total Solids (E	ry Weigh	nt)					Soil					
Duplicate (0120974-DUP1)			Prepared	12/30/20	07:28 Ana	yzed: 12/31/	/20 07:21					
QC Source Sample: Non-SDG (A01) % Solids	.0967-01) 79.4	1.00	1.00	%	1		80.6		:	1	10%	
Duplicate (0120974-DUP2)			Prepared	: 12/30/20	17:50 Ana	yzed: 12/31/	/20 07:21					
QC Source Sample: CB-6 (A0L069 EPA 8000D	<u>8-07)</u>											
% Solids	33.5	1.00	1.00	%	1		33.5			0.03	10%	
Duplicate (0120974-DUP3)			Prepared	: 12/30/20	17:50 Ana	yzed: 12/31/	/20 07:21					
QC Source Sample: Non-SDG (A01 % Solids	92.2	1.00	1.00	%	1		92.4			0.2	10%	

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

Apex Laboratories

Philip Monterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 107 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

SAMPLE PREPARATION INFORMATION

		Diesel an	d/or Oil Hydrocarbor	s by NWTPH-Dx			
Prep: EPA 3546 (Fue	els)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 0120816							
A0L0698-01RE2	Solid	NWTPH-Dx	12/17/20 10:10	12/22/20 12:44	10.03g/5mL	10g/5mL	1.00
A0L0698-02RE1	Solid	NWTPH-Dx	12/17/20 08:50	12/22/20 12:44	10.22g/5mL	10g/5mL	0.98
A0L0698-03RE1	Solid	NWTPH-Dx	12/17/20 09:15	12/22/20 12:44	10.41g/5mL	10g/5mL	0.96
A0L0698-04RE1	Solid	NWTPH-Dx	12/17/20 11:00	12/22/20 12:44	10.39g/5mL	10g/5mL	0.96
A0L0698-05RE1	Solid	NWTPH-Dx	12/17/20 11:05	12/22/20 12:44	10.1g/5mL	10g/5mL	0.99
A0L0698-06RE1	Solid	NWTPH-Dx	12/17/20 11:35	12/22/20 12:44	10.25g/5mL	10g/5mL	0.98
A0L0698-07RE1	Solid	NWTPH-Dx	12/17/20 13:10	12/22/20 12:44	10.28g/5mL	10g/5mL	0.97
A0L0698-08RE1	Solid	NWTPH-Dx	12/17/20 12:30	12/22/20 12:44	10.08g/5mL	10g/5mL	0.99

	Gas	soline Range Hydrocart	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 0120837							
A0L0698-06	Solid	NWTPH-Gx (MS)	12/17/20 11:35	12/17/20 11:35	6.08g/5mL	5g/5mL	0.82
A0L0698-07	Solid	NWTPH-Gx (MS)	12/17/20 13:10	12/17/20 13:10	4.01g/5mL	5g/5mL	1.25
A0L0698-08	Solid	NWTPH-Gx (MS)	12/17/20 12:30	12/17/20 12:30	6.67g/5mL	5g/5mL	0.75
Batch: 0120869							
A0L0698-01	Solid	NWTPH-Gx (MS)	12/17/20 10:10	12/17/20 10:10	4.11g/5mL	5g/5mL	1.22
A0L0698-03	Solid	NWTPH-Gx (MS)	12/17/20 09:15	12/17/20 09:15	5.52g/5mL	5g/5mL	0.91
A0L0698-04	Solid	NWTPH-Gx (MS)	12/17/20 11:00	12/17/20 11:00	5.24g/5mL	5g/5mL	0.95
A0L0698-05	Solid	NWTPH-Gx (MS)	12/17/20 11:05	12/17/20 11:05	7.29g/5mL	5g/5mL	0.69
Batch: 0120899							
A0L0698-02RE1	Solid	NWTPH-Gx (MS)	12/17/20 08:50	12/17/20 08:50	2.85g/5mL	5g/5mL	1.75

		Volatile	Organic Compounds	by EPA 8260D			
Prep: EPA 5030B Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0120732 A0L0698-09	Water	EPA 8260D	12/17/20 13:30	12/19/20 20:00	5mL/5mL	5mL/5mL	1.00
Prep: EPA 5035A Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 0120837			-				

Apex Laboratories

Philip Manherz

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

SAMPLE PREPARATION INFORMATION

		Volatile	Organic Compounds	by EPA 8260D			
<u>Prep: EPA 5035A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A0L0698-06	Solid	5035A/8260D	12/17/20 11:35	12/17/20 11:35	6.08g/5mL	5g/5mL	0.82
A0L0698-07	Solid	5035A/8260D	12/17/20 13:10	12/17/20 13:10	4.01g/5mL	5g/5mL	1.25
A0L0698-08	Solid	5035A/8260D	12/17/20 12:30	12/17/20 12:30	6.67g/5mL	5g/5mL	0.75
Batch: 0120869							
A0L0698-01	Solid	5035A/8260D	12/17/20 10:10	12/17/20 10:10	4.11g/5mL	5g/5mL	1.22
A0L0698-03	Solid	5035A/8260D	12/17/20 09:15	12/17/20 09:15	5.52g/5mL	5g/5mL	0.91
A0L0698-04	Solid	5035A/8260D	12/17/20 11:00	12/17/20 11:00	5.24g/5mL	5g/5mL	0.95
A0L0698-05	Solid	5035A/8260D	12/17/20 11:05	12/17/20 11:05	7.29g/5mL	5g/5mL	0.69
Batch: 0120899							
A0L0698-02RE1	Solid	5035A/8260D	12/17/20 08:50	12/17/20 08:50	2.85g/5mL	5g/5mL	1.75

		Polych	nlorinated Biphenyls l	by EPA 8082A		·	
Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 0121020							
A0L0698-01RE1	Solid	EPA 8082A	12/17/20 10:10	12/31/20 06:56	2.19g/2mL	10g/2mL	4.57
A0L0698-02RE1	Solid	EPA 8082A	12/17/20 08:50	12/31/20 06:56	2.36g/2mL	10g/2mL	4.24
A0L0698-03RE1	Solid	EPA 8082A	12/17/20 09:15	12/31/20 06:56	2.45g/2mL	10g/2mL	4.08
A0L0698-04RE1	Solid	EPA 8082A	12/17/20 11:00	12/31/20 06:56	2.16g/2mL	10g/2mL	4.63
A0L0698-05RE1	Solid	EPA 8082A	12/17/20 11:05	12/31/20 06:56	2.61g/2mL	10g/2mL	3.83
A0L0698-06	Solid	EPA 8082A	12/17/20 11:35	12/31/20 06:56	2.08g/2mL	10g/2mL	4.81
A0L0698-07RE1	Solid	EPA 8082A	12/17/20 13:10	12/31/20 06:56	2.04g/2mL	10g/2mL	4.90
A0L0698-08RE1	Solid	EPA 8082A	12/17/20 12:30	12/31/20 06:56	2.07g/2mL	10g/2mL	4.83

		Organ	ochlorine Pesticides	by EPA 8081B			
Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 0121015							
A0L0698-01RE1	Solid	EPA 8081B	12/17/20 10:10	12/30/20 11:45	2.42g/20mL	10g/5mL	16.50
A0L0698-02RE1	Solid	EPA 8081B	12/17/20 08:50	12/30/20 11:45	2.55g/20mL	10g/5mL	15.70
A0L0698-03RE1	Solid	EPA 8081B	12/17/20 09:15	12/30/20 11:45	2.15g/20mL	10g/5mL	18.60
A0L0698-04RE1	Solid	EPA 8081B	12/17/20 11:00	12/30/20 11:45	2.12g/20mL	10g/5mL	18.90
A0L0698-05RE1	Solid	EPA 8081B	12/17/20 11:05	12/30/20 11:45	2.08g/20mL	10g/5mL	19.20
A0L0698-06RE1	Solid	EPA 8081B	12/17/20 11:35	12/30/20 11:45	2.04g/20mL	10g/5mL	19.60

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

SAMPLE PREPARATION INFORMATION

		Organ	ochlorine Pesticides	by EPA 8081B			
Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A0L0698-07RE1	Solid	EPA 8081B	12/17/20 13:10	12/30/20 11:45	2.12g/10mL	10g/5mL	9.43
A0L0698-08RE1	Solid	EPA 8081B	12/17/20 12:30	12/30/20 11:45	2.31g/10mL	10g/5mL	8.66

		Semivolat	ile Organic Compour	nds by EPA 8270E			
Prep: EPA 3546					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 0120994							
A0L0698-01	Solid	EPA 8270E	12/17/20 10:10	12/30/20 11:44	2.13g/5mL	15g/2mL	17.60
A0L0698-02	Solid	EPA 8270E	12/17/20 08:50	12/30/20 11:44	2.41g/5mL	15g/2mL	15.60
A0L0698-03	Solid	EPA 8270E	12/17/20 09:15	12/30/20 11:44	2.3g/5mL	15g/2mL	16.30
A0L0698-04RE1	Solid	EPA 8270E	12/17/20 11:00	12/30/20 11:44	2.19g/5mL	15g/2mL	17.10
A0L0698-05RE1	Solid	EPA 8270E	12/17/20 11:05	12/30/20 11:44	2.6g/5mL	15g/2mL	14.40
A0L0698-06RE1	Solid	EPA 8270E	12/17/20 11:35	12/30/20 11:44	2.53g/5mL	15g/2mL	14.80
A0L0698-07	Solid	EPA 8270E	12/17/20 13:10	12/30/20 11:44	2.26g/2mL	15g/2mL	6.64
A0L0698-08	Solid	EPA 8270E	12/17/20 12:30	12/30/20 11:44	2.32g/2mL	15g/2mL	6.47

		Tota	al Metals by EPA 6020	0B (ICPMS)			
Prep: EPA 3051A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1012474		<u> </u>		<u> </u>			
A0L0698-01	Solid	EPA 6020B	12/17/20 10:10	01/04/21 13:11	0.497g/50mL	0.5g/50mL	1.01
A0L0698-02	Solid	EPA 6020B	12/17/20 08:50	01/04/21 13:11	0.499g/50mL	0.5g/50mL	1.00
A0L0698-03	Solid	EPA 6020B	12/17/20 09:15	01/04/21 13:11	0.5g/50mL	0.5g/50mL	1.00
A0L0698-03RE1	Solid	EPA 6020B	12/17/20 09:15	01/04/21 13:11	0.5g/50mL	0.5g/50mL	1.00
A0L0698-04	Solid	EPA 6020B	12/17/20 11:00	01/04/21 13:11	0.457g/50mL	0.5g/50mL	1.09
A0L0698-05	Solid	EPA 6020B	12/17/20 11:05	01/04/21 13:11	0.47g/50mL	0.5g/50mL	1.06
A0L0698-06	Solid	EPA 6020B	12/17/20 11:35	01/04/21 13:11	0.481g/50mL	0.5g/50mL	1.04
A0L0698-07	Solid	EPA 6020B	12/17/20 13:10	01/04/21 13:11	0.465g/50mL	0.5g/50mL	1.08
A0L0698-08	Solid	EPA 6020B	12/17/20 12:30	01/04/21 13:11	0.482 g/50 mL	0.5g/50mL	1.04

The last the state of the state				Percent Dry We	ight			
Lab Number Matrix Method Sampled Propaged Initial/Final Initial/Final F	Prep: Total Solids (Dry Weight)				Sample	Default	RL Prep
Lab Number Matrix Method Sampled Trepared	Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

SAMPLE PREPARATION INFORMATION

			Percent Dry We	ight			
Prep: Total Solids (I	Dry Weight)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A0L0698-05	Solid	EPA 8000D	12/17/20 11:05	12/29/20 18:10			NA
Batch: 0120974							
A0L0698-01	Solid	EPA 8000D	12/17/20 10:10	12/30/20 17:50			NA
A0L0698-02	Solid	EPA 8000D	12/17/20 08:50	12/30/20 17:50			NA
A0L0698-03	Solid	EPA 8000D	12/17/20 09:15	12/30/20 17:50			NA
A0L0698-04	Solid	EPA 8000D	12/17/20 11:00	12/30/20 17:50			NA
A0L0698-06	Solid	EPA 8000D	12/17/20 11:35	12/30/20 17:50			NA
A0L0698-07	Solid	EPA 8000D	12/17/20 13:10	12/30/20 17:50			NA
A0L0698-08	Solid	EPA 8000D	12/17/20 12:30	12/30/20 17:50			NA

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

A-01 Serial dilution	vas performed and passes accept	tance criteria. Data are acceptable.
----------------------	---------------------------------	--------------------------------------

- C-05 Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- F-03 The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- M-05 Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- P-12 Result estimated due to the presence of multiple PCB Aroclors and/or PCB congeners not defined as Aroclors.
- **Q-01** Spike recovery and/or RPD is outside acceptance limits.
- Q-03 Spike recovery and/or RPD is outside control limits due to the high concentration of analyte present in the sample.
- Q-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05 Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-17 RPD between original and duplicate sample is outside of established control limits.
- Q-18 Matrix Spike results for this extraction batch are not reported due to the high dilution necessary for analysis of the source sample.
- Q-30 Recovery for Lab Control Spike (LCS) is below the lower control limit. Data may be biased low.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +10%. The results are reported as Estimated Values.
- Q-54a Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +13%. The results are reported as Estimated Values.
- Q-54b Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +23%. The results are reported as Estimated Values.
- Q-54c Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +36%. The results are reported as Estimated Values.
- Q-54d Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +43%. The results are reported as Estimated Values.
- Q-54e Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +8%. The results are reported as Estimated Values.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 112 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc.Project:Former Automatic Vending Co.9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

viisonviiie, (ie, OR 9/0/0 Project Mana	ger: Kyle Haggart	A0L0698 - 01 11 2
Q-54f	Daily Continuing Calibration Verification recovery for this analyt results are reported as Estimated Values.	e failed the +/-20% criteria listed in EPA method 8260/	8270 by -1%. The
Q-54g	Daily Continuing Calibration Verification recovery for this analyt results are reported as Estimated Values.	e failed the +/-20% criteria listed in EPA method 8260/	8270 by -10%. The
Q-54h	Daily Continuing Calibration Verification recovery for this analyteresults are reported as Estimated Values.	e failed the +/-20% criteria listed in EPA method 8260/	8270 by -13%. The
Q-54i	Daily Continuing Calibration Verification recovery for this analyt results are reported as Estimated Values.	e failed the +/-20% criteria listed in EPA method 8260/	8270 by -15%. The
Q-54j	Daily Continuing Calibration Verification recovery for this analyt results are reported as Estimated Values.	e failed the +/-20% criteria listed in EPA method 8260/	8270 by -2%. The
Q-54k	Daily Continuing Calibration Verification recovery for this analyt results are reported as Estimated Values.	e failed the +/-20% criteria listed in EPA method 8260/	8270 by -3%. The
Q-54l	Daily Continuing Calibration Verification recovery for this analyt results are reported as Estimated Values.	e failed the +/-20% criteria listed in EPA method 8260/	8270 by -5%. The
Q-55	Daily CCV/LCS recovery for this analyte was below the +/-20% ensure detection at the reporting level.	criteria listed in EPA 8260, however there is adequate so	ensitivity to
Q-56	Daily CCV/LCS recovery for this analyte was above the +/-20% of	criteria listed in EPA 8260	
R-02	The Reporting Limit for this analyte has been raised to account for	or interference from coeluting organic compounds prese	ent in the sample.
R-04	Reporting levels elevated due to preparation and/or analytical dilu	ntion necessary for analysis.	
S-01	Surrogate recovery for this sample is not available due to sample interference.	dilution required from high analyte concentration and/o	or matrix
S-03	Reextraction and analysis, or analysis of laboratory duplicate, cor	firms surrogate failure due to sample matrix effect.	
S-05	Surrogate recovery is estimated due to sample dilution required for	or high analyte concentration and/or matrix interference	.
S-06	Surrogate recovery is outside of established control limits.		
TEMP	Sample(s) received outside of recommended temperature. See Ca	se Narrative.	
V-15	Sample aliquot was subsampled from the sample container. The sampling.	ubsampled aliquot was preserved in the laboratory with	nin 48 hours of

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 113 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

"___" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

"---" QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

- -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

Apex Laboratories

Philip Manhera

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 114 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 115 of 118



6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA0L0698 - 01 11 21 2200

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories

Matrix Analysis TNI_ID Analyte TNI_ID Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Philip Nevenberg

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 116 of 118





6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc.

Project:

Former Automatic Vending Co.

9450 SW Commerce Circle Wilsonville, OR 97070 Project Number: BCSAmerica-1-02

Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

	Vewolin	3		4	T-15										w									2	
	ر ا					эліц	Are		1		- 1							Γ				1			1
Jo	Automotic				100-7-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-																				
	d ye				0L28	22401911	4	C	^	X	χ	X	X	X	X							Date:	Time:		
202	*			18	318	Ember 179	D.	X.		Х	X	X	X	X	X										
	36			_	SI >	دهالمالك				*	X	X	X	X	X										
Lab # AUDU98	Project #: Formar			L	×01-X	14				X	×	×	X	X	X) BY:	165 165		
3	ect #:		۶.	17	som:	7/ 2~ ixo;	د 2		4	×	×	X	×	X	X							RECEIVED BY: Signature:	Printed Name	any:	
7	Proj	#\$4	7 9	<u></u>		CLP Metals (8)																REC	Printe	Соправу	
# 7		3			TCLP	uz	'Δ																<u>a</u>		
Lab#		7	EST	3, Mg,	COLC.	SP' V8' B8' B6' C0' Cn' Ec' El 'M0' M' K' 26'	Cr.															Date:	Тіте		
		Á	EOL		10.000	riority Metals	7	*	*	x	<u>~</u>		X												
	Project Name: BLS America - 1-02	878 Email: KHaszat Dgeoderishing. Consider	ANALYSIS REQUEST	-		CRA Metals (8		+	4			-		<u> </u>	×										
	14	å	VALN	<u> </u>		981 Pest		+	+				_		_			SPECIAL INSTRUCTIONS:							
	الخ ا	7	¥			982 PCBs	_	1	× .	×	>	×	X	X	70			SUCT				BY:			
	\$	3)	15	en nea	sloV-imag 075	_	+										NST					.,		
Ō	3	7			1	SHAY MIS 072	8 7		×	×	×	×	×	×	~			IAL				RELINQUISHED BY: Signature:	Printed Name	u).:	
SI	ame:	Email			1si.I	700 AOCs Enli	8 7	•	× -	+	¥	+	×	大	セ	X		SPEC				RELIP Signatu	Printed	Company:	1
CO	ject N	78			s	OOV 618H 062	8														1	1.000000			
CHAIN OF CUSTODY	Pro	- 1			SOC	700 KBDM AC	8											1		1		IN Th	Eng		
0		896				SEO BLEX	8	_														=	\bar{z}		
	L	50		ļ		WTPH-Gx			_	*	+	بد	+	λ	乂		_					Date:	Time:		19
¥	30	Phone: 503			~	xG-H4TW	-	- 1	/ با	4	¥	×	メ	×	メ										
0	Hosgart	P.		_		WTPH-HCID	V											Days	5	Other:			ed Name: U	Apexabs	1
					ERS	OF CONTAIN	# 5	_	-	_								siness	3 Day	ō		· ·	A A) S	
323	3					ATRIX	N Y	: -	-	4						_		10 Br	•		AYS	THE STATE OF	2 88 28	26%	
18-23	7	- 1				IME			2 1	n	<u>8</u>	105	1135	1310	1230	1330		=	2 Day	5 DAY	30 D	RECEIVED BY	Printed Name:	Company:	
:03-7	t Mgr					.10.0	1 5	0	0 1	415	르	=	2	2	7	5	_	E (TA	7.7	5 D	9.50		Prin	Com	
Ph. 5	Project Mgr. Kryle	3				ATE	T 101/21	-	_	4	_					-	ŀ	틸			EFE	92/2	0		
APEX LABS 6700 SW Sandburg St., Tigard, OR 97223 Ph. 503-718-2323	\exists					₩ DI ₩	_	\dagger	+	\dagger							\dashv	Normal Turn Around Time (TAT) = 10 Business Days	1 Day	4 DAY	SAMPLES ARE HELD FOR 30 DAYS	Date: 12/17/120	Time: 15 50		
JR 97		ષ્ટ્ર	3	\				T	1	_							\neg 1	Tall		4	MPLE				
ırd, C		COMMANCE	Hainles						ļ		l					$\overline{}$		orma	2	e e	S	M			
SS.	싫		=						ĺ			3				3 (12172)		z		IAI Kequested (circle)			3		a constitution of the cons
A S.	12	3	5		CA		SAMPLE ID		١.			CB-4- DW?	ď			5	1		-	ested		\	Hainky	5€	
T adpu	3	8	12	:ii	WA	<u>e</u>	SAIM 2-1	10-7	7 6	200	C8-4	7	CB-5	CB 2	C2	2				Ē			1	Ž,	
EX V San	200	9	. py:	ocatic	OR WA CA	AK ID	12	2	5 3	: 'اک	C	3	3	3	3	2			1	¥ V		E 9/	ii 3	pany: 600 (Yesisya	
APEX LABS 700 SW Sandburg St., Tig	Company: Ges Design	Address: 9450 5w	Sampled by: Tim	Site Location:	\odot											•			E	-		Signature:	Printed Name:	Company:	
6.	ರ	Ϋ́	S	S					1.													Sign	Œ 1	ర్ధ	
								¥	w.	* 4															

Apex Laboratories

Philip Maenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 117 of 118





6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. 9450 SW Commerce Circle Wilsonville, OR 97070 Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02

Project Manager: Kyle Haggart

Report ID: A0L0698 - 01 11 21 2200

	1	APEX LAB	S COOLER I	RECEIPT FO	<u>DRM</u>	
Client:	(140 Desig	'h		Elem	ent WO#: A0	498
Project/I	Project #: BC	3 America	1-02	Former 1	futomatic Venc	long Co.
Delivery	***************************************					J
Date/time	e received: 174	<u> 152</u>	<i>>O</i> By: <i>A</i>	lac		
Delivered					_SenvoySDS	
Cooler I	nspection Dat				By: AKK	
Chain of	Custody included			Custody seals	? Yes No	_×
Signed/da	ated by client?	Yes X No	Andrew Control of the			
Signed/da	ated by Apex?	Yes 🔀 No _	 -			
			r#2 Cooler#	3 Cooler #4	Cooler #5 Cooler	#6 Cooler #7
Temperat	ture (°C)	2.4		_	-	· · · · · · · · · · · · · · · · · · ·
Received	on ice? (Y/N)			****		
Temp. bla	anks? (Y/N)	7				
Ice type:	(Gel/Real/Other)	K-ea(
Condition	n:					
All samp	les intact? Yes 📉	s form initiated? Y te/time inspected: \(\) \(\) No \(\) Commo	ents:			
Bottle lab	pels/COCs agree?	Yes \(\section \) No	Comments: _		······································	
COC/con	tainer discrepanci	es form initiated?	Yes No _	K		
Containe	rs/volumes receive	ed appropriate for a	nalysis? Yes	₩ No	Comments:	
Do VOA	vials have visible	headspace? Yes	No	NA T		100
Commen	ts					
Water sar	mples: pH checked	d: YesNoNA	YpH appro	priate? Yes_	No_NA	
	ts:					
			pr - 30 - 100 (00 o do			
Additiona	al information:					
Labeled b	ov: Wi	tness:	Cooler Inspec	ted by:	See Project Con	ntact Form: Y
K		2	AK		211 1 10,100 001	
		1.K	HK	_		

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 118 of 118

www.capefearanalytical.com



January 12, 2021

Mr. Philip Nerenberg Apex Laboratories 6700 SW Sandburg Street Portland, Oregon 97223

Re: DXN & PCB Subcontract

Work Order: 17535 SDG: A0L0698

Dear Mr. Nerenberg:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on December 22, 2020. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Cyride Larkins

Cynde Larkins Project Manager

Enclosures

SUBCONTRACT ORDER



Apex Laboratories

Bbrugho AOLO698

CFA WO#17-535

SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 336-0745

Project Manager:

Philip Nerenberg

RECEIVING LABORATORY:

Cape Fear Analytical, LLC 3306 Kitty Hawk Rd Suite 120 Wilmington, NC 28405

Phone: (910) 795-0421

Fax: -

Sample Name: CB-1		Solid San	npled: 12/17/20 10:10	(A0L0698-01
Analysis	Due	Expires	Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (C)4 oz Glass Jar	01/08/21 17:00	06/15/21 10:10	Sub Cape Fear	
Sample Name: CB-2		Solid San	upled: 12/17/20 08:50	(A0L0698-02)
Analysis	Due	Expires	Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (C)4 oz Glass Jar	01/08/21 17:00	06/15/21 08:50	Sub Cape Fear	
Sample Name: CB-3		Solid Sam	pled: 12/17/20 09:15	(A0L0698-03)
Analysis	Due	Expires	Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (C)4 oz Glass Jar	01/08/21 17:00	06/15/21 09:15	Sub Cape Fear	and a second
Sample Name: CB-4		Solid Samj	pled: 12/17/20 11:00	(A0L0698-04)
Analysis	Due	Expires	Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (C)4 oz Glass Jar	01/08/21 17:00	06/15/21 11:00	Sub Cape Fear	

Standard TAT

Released By

Released By

Date

Received By

Received By

Date

Received By

Received By

Date

Received By

Date

Received By

Date

SUBCONTRACT ORDER

巨寸

Apex Laboratories

B 1211840

A0L0698

CFA NO # 17535

Sample Name: CB-4_DUP		Solid	Sampled: 12/17/20 11:05	(A0L0698-05
Analysis	Due	Expires	Comments	(1,2020030 03
1613B Dioxins and Furans (SUB) Containers Supplied: (C)4 oz Glass Jar	01/08/21 17:00	06/15/21 11:05	Sub Cape Fear	
Sample Name: CB-5		Solid	Sampled: 12/17/20 11:35	(A0L0698-06)
Analysis	Due	Expires	Comments	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1613B Dioxins and Furans (SUB) Containers Supplied: (C)4 oz Glass Jar	01/08/21 17:00	06/15/21 11:35	Sub Cape Fear	
Sample Name: CB-6		Solid	Sampled: 12/17/20 13:10	(A0L0698-07)
Analysis	Due	Expires	Comments	(======================================
1613B Dioxins and Furans (SUB) Containers Supplied: (C)4 oz Glass Jar	01/08/21 17:00	06/15/21 13:10	Sub Cape Fear	***************************************
Sample Name: CB-7		Solid	Sampled: 12/17/20 12:30	(A0L0698-08)
Analysis	Due	Expires	Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (C)4 oz Glass Jar	01/08/21 17:00	06/15/21 12:30	Sub Cape Fear	

Standard PAT

Released By Date Received By Date

Released By Date

Released By Date

Released By Date

Received By Date

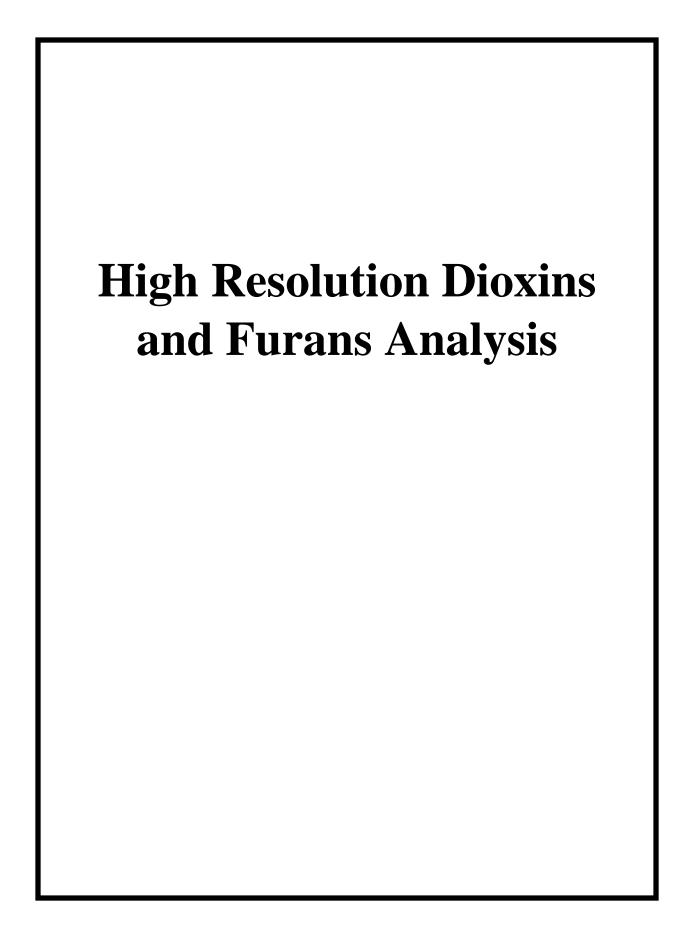
SAMPLE RECEIPT CHECKLIST

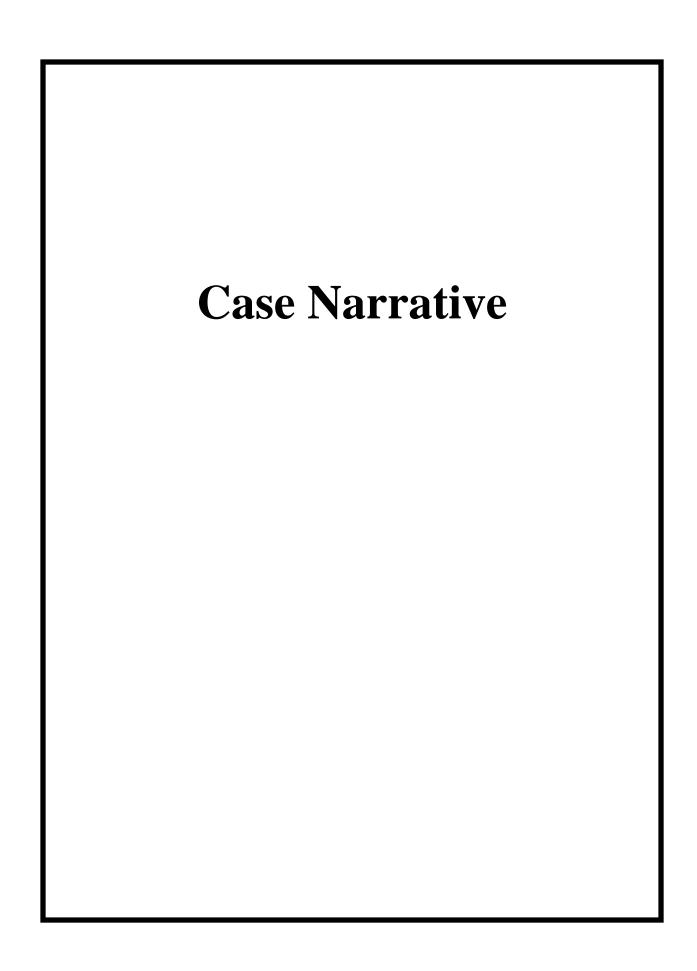
				(Cape Fear Analytical
Cli	ent: Apex				Work Order: 17-535
Shipping Company: Fedit					Date/Time Received: 12 22 23 UD
Su	spected Hazard Information	Yes	NA	No	DOE Site Sample Packages Yes NA No*
Shi	pped as DOT Hazardous?				Screened <0.5 mR/hr?
Sar	nples identified as Foreign Soil?			\overline{Z}	Samples < 2x background?
Air	Sample Receipt Specifics	l Vaa	LAIA	l Nia	* Notify RSO of any responses in this column immediately.
	sample in shipment?	Yes	NA	No	Air Witness:
	Sample Receipt Criteria	L	LALA	L/_	
	1	Yes	NA	No	Circle Applicable:
1	Shipping containers received intact and sealed?	/			seals broken damaged container leaking container other(describe)
. 2	Custody seal/s present on cooler?			$\sqrt{}$	Seal intact? Yes No
3	Chain of Custody documents included with shipment?				
4	Samples requiring cold preservation within 0-6°C?				Preservation Method: Icé bags) loose ice blue ice dry ice none other (describe) Temperature Blank present: Yes No
5	Aqueous samples found to have visible solids?				Sample IDs, containers affected:
5	Samples requiring chemical preservation at proper pH?				Sample IDs, containers affected and pH observed: If preservative added, Lot#:
7	Samples requiring preservation have no residual chlorine?			<i>,</i>	Sample IDs, containers affected: If preservative added, Lot#:
8	Samples received within holding time?	/	/		Sample IDs, tests affected:
9	Sample IDs on COC match IDs on containers?	. /			Sample IDs, containers affected:
10	Date & time of COC match date & time on containers?	V	,		Sample IDs, containers affected:
11	Number of containers received match number indicated on COC?	V			List type and number of containers / Sample IDs, containers affected: Vecture 8 - 402 Clear
12	COC form is properly signed in relinquished/received sections?				
Cor	nments:				
					·
•					I

Page 4 of 40 Work Orderist 7636 med by: Initials: ____

Date: [] () かん)

M





HDOX Case Narrative Apex Laboratories (APEX) SDG A0L0698 Work Order 17535

Method/Analysis Information

Product: Dioxins/Furans by EPA Method 1613B in Solids

Analytical Method: EPA Method 1613B

Extraction Method: SW846 3540C

Analytical Batch Number: 45696 Clean Up Batch Number: 45695 Extraction Batch Number: 45694

Sample Analysis

Samples were received at 1.8°C.

(17535001,17535002,17535003,17535004,17535005,17535006,17535007,17535008). The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12028283	Method Blank (MB)
12028284	Laboratory Control Sample (LCS)
12028285	Laboratory Control Sample Duplicate (LCSD)
17535001	CB-1
17535002	CB-2
17535003	CB-3
17535004	CB-4
17535005	CB-4_DUP
17535006	CB-5
17535007	CB-6
17535008	CB-7

The samples in this SDG were analyzed on a "dry weight" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 18.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Page 7 of 40 Work Order: 17535

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (CCV) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement

The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

A sample of similar matrix, not associated with this SDG, was selected for analysis as the matrix spike and matrix spike duplicate.

Technical Information

Receipt Temperature

Samples were received within temperature requirements.

Holding Time Specifications

CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All samples were extracted @ 1g due to oil appearance and odor. Batch 45696.

Page 8 of 40 Work Order: 17535

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Nonconformance (NCR) Documentation

A NCR was not required for this SDG.

Manual Integrations

Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

Sample Preparation

No difficulties were encountered during sample preparation.

System Configuration

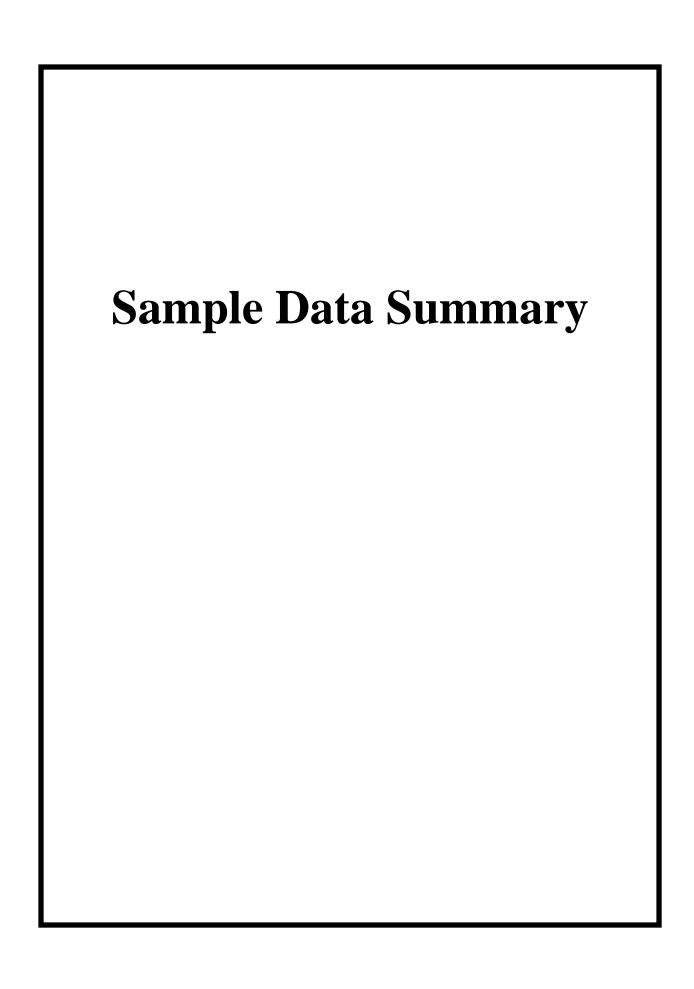
This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP750_2	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um
HRP757_3	Confirmation Analysis	TCDF Confirmation	DB-225	30m x 0.25mm, 0.25um

Electronic Packaging Comment

This data package was generated using an electronic data processing program referred to as virtual packaging. In an effort to increase quality and efficiency, the laboratory has developed systems to generate all data packages electronically. The following change from traditional packages should be noted: Analyst/peer reviewer initials and dates are not present on the electronic data files. Presently, all initials and dates are present on the original raw data. These hard copies are temporarily stored in the laboratory. An electronic signature page inserted after the case narrative will include the data validator's signature and title. The signature page also includes the data qualifiers used in the fractional package. Data that are not generated electronically, such as hand written pages, will be scanned and inserted into the electronic package.

Page 9 of 40 Work Order: 17535



Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report for

APEX001 Apex Laboratories

Client SDG: A0L0698 CFA Work Order: 17535

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- B The target analyte was detected in the associated blank.
- J Value is estimated
- K Estimated Maximum Possible Concentration
- U Analyte was analyzed for, but not detected above the specified detection limit.
- DL Indicates that sample is diluted.
- RA Indicates that sample is re-analyzed without re-extraction.
- RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: Sulpite Name: Erin Suhrie

Date: 12 JAN 2021 Title: Data Validator

Page 11 of 40 Work Order: 17535

Report Date:

APEX00320

Page 1

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 SDG Number: 17535001 Lab Sample ID: 1613B Soil **Client Sample: Client ID: CB-1**

Batch ID: 45696 01/06/2021 17:52 **Run Date:**

Data File: A06JAN21A_2-5 45694 Prep Batch: Prep Date: 28-DEC-20

APEX001 Client: 12/17/2020 10:10 **Date Collected:** 12/22/2020 13:00 Date Received:

Method: EPA Method 1613B **Analyst:** MLL

SW846 3540C **Prep Method:** Prep Aliquot: 1.06 g

Project: Matrix: SOIL %Moisture: 66

Prep Basis: Dry Weight

Instrument: HRP750 Dilution: 1

Prep Date:	28-DEC-20	Prep Aliquot:	1.06 g			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	12.8	pg/g	12.8	27.8
40321-76-4	1,2,3,7,8-PeCDD	J	14.4	pg/g	8.10	139
39227-28-6	1,2,3,4,7,8-HxCDD	U	11.0	pg/g	11.0	139
57653-85-7	1,2,3,6,7,8-HxCDD	JK	11.4	pg/g	11.1	139
19408-74-3	1,2,3,7,8,9-HxCDD	JK	26.9	pg/g	11.2	139
35822-46-9	1,2,3,4,6,7,8-HpCDD		294	pg/g	35.6	139
3268-87-9	1,2,3,4,6,7,8,9-OCDD		3550	pg/g	33.1	278
51207-31-9	2,3,7,8-TCDF	U	11.4	pg/g	11.4	27.8
57117-41-6	1,2,3,7,8-PeCDF	U	5.61	pg/g	5.61	139
57117-31-4	2,3,4,7,8-PeCDF	U	5.35	pg/g	5.35	139
70648-26-9	1,2,3,4,7,8-HxCDF	J	7.55	pg/g	6.11	139
57117-44-9	1,2,3,6,7,8-HxCDF	U	6.11	pg/g	6.11	139
50851-34-5	2,3,4,6,7,8-HxCDF	JK	7.72	pg/g	6.55	139
72918-21-9	1,2,3,7,8,9-HxCDF	U	9.38	pg/g	9.38	139
57562-39-4	1,2,3,4,6,7,8-HpCDF	JK	56.6	pg/g	11.0	139
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	16.9	pg/g	16.9	139
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	97.3	pg/g	23.9	278
1903-57-5	Total TeCDD	U	12.8	pg/g	12.8	27.8
36088-22-9	Total PeCDD	JK	80.7	pg/g	8.10	139
34465-46-8	Total HxCDD	JK	180	pg/g	11.0	139
37871-00-4	Total HpCDD		624	pg/g	35.6	139
30402-14-3	Total TeCDF	U	11.4	pg/g	11.4	27.8
30402-15-4	Total PeCDF	JK	30.9	pg/g	3.22	139
55684-94-1	Total HxCDF	JK	73.9	pg/g	6.11	139
38998-75-3	Total HpCDF	JK	141	pg/g	11.0	139
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		24.4	pg/g		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		33.7	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
3C-2,3,7,8-TCDD		4790	5550	pg/g	86.2	(25%-164%)
3C-1,2,3,7,8-PeCDD		4820	5550	pg/g	86.9	(25%-181%)
C-1,2,3,4,7,8-HxCDD		4150	5550	pg/g	74.7	(32%-141%)
-1,2,3,6,7,8-HxCDD		4080	5550	pg/g	73.6	(28%-130%)
-1,2,3,4,6,7,8-HpCDD		4750	5550	pg/g	85.5	(23%-140%)
OCDD		8940	11100	pg/g	80.5	(17%-157%)
2,3,7,8-TCDF		4850	5550	pg/g	87.4	(24%-169%)
,2,3,7,8-PeCDF		5270	5550	pg/g	95.0	(24%-185%)
2,3,4,7,8-PeCDF		5200	5550	pg/g	93.7	(21%-178%)
1,2,3,4,7,8-HxCDF		4280	5550	pg/g	77.2	(26%-152%)
1,2,3,6,7,8-HxCDF		4310	5550	pg/g	77.7	(26%-123%)
,3,4,6,7,8-HxCDF		4320	5550	pg/g	77.8	(28%-136%)
,2,3,7,8,9-HxCDF		4480	5550	pg/g	80.7	(29%-147%)

Page 2

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 SDG Number: 17535001 Lab Sample ID: 1613B Soil **Client Sample:** Client ID: CB-1

Client: **Date Collected:** Date Received:

APEX001 12/17/2020 10:10 12/22/2020 13:00

SW846 3540C

Project: Matrix: %Moisture:

EDL

Units

APEX00320 SOIL 66

PQL

Prep Basis: Dry Weight

Batch ID: 45696

Run Date: 01/06/2021 17:52 Data File: A06JAN21A_2-5 Method: EPA Method 1613B **Analyst:** MLL

Instrument: HRP750

45694 Prep Batch:

Prep Method: Prep Aliquot: Dilution: 1

1.06 g **Prep Date:** 28-DEC-20 CAS No. Qual **Parmname** Result

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		4650	5550	pg/g	83.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		4880	5550	pg/g	87.9	(26%-138%)
37Cl-2,3,7,8-TCDD		472	555	pg/g	85.0	(35%-197%)

Comments:

Value is estimated J

Estimated Maximum Possible Concentration K

Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 SDG Number: 17535002 Lab Sample ID: 1613B Soil **Client Sample: Client ID:** CB-2

Batch ID: 45696 01/04/2021 01:28 **Run Date:** Data File: A03JAN21A_2-9

45694 Prep Batch: **Prep Date:** 28-DEC-20 Client: APEX001 12/17/2020 08:50 **Date Collected:** 12/22/2020 13:00 Date Received:

Method: **Analyst:** MJC

SW846 3540C **Prep Method: Prep Aliquot:** 1.02 g

EPA Method 1613B

APEX00320 **Project:** SOIL Matrix: %Moisture: **Prep Basis:**

32.5

Dry Weight

Instrument: HRP750 Dilution: 1

rrep Date:	28-DEC-20	Trep Anquot.	1.02 g			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	J	2.76	pg/g	2.53	14.5
40321-76-4	1,2,3,7,8-PeCDD	JK	6.63	pg/g	2.10	72.7
39227-28-6	1,2,3,4,7,8-HxCDD	J	5.09	pg/g	2.55	72.7
57653-85-7	1,2,3,6,7,8-HxCDD	J	13.1	pg/g	2.47	72.7
19408-74-3	1,2,3,7,8,9-HxCDD	J	9.82	pg/g	2.54	72.7
35822-46-9	1,2,3,4,6,7,8-HpCDD		342	pg/g	8.95	72.7
3268-87-9	1,2,3,4,6,7,8,9-OCDD		4700	pg/g	10.5	145
51207-31-9	2,3,7,8-TCDF	U	4.04	pg/g	4.04	14.5
57117-41-6	1,2,3,7,8-PeCDF	BJ	3.20	pg/g	2.31	72.7
57117-31-4	2,3,4,7,8-PeCDF	JK	4.42	pg/g	2.24	72.7
70648-26-9	1,2,3,4,7,8-HxCDF	J	5.03	pg/g	2.29	72.7
57117-44-9	1,2,3,6,7,8-HxCDF	JK	4.24	pg/g	2.36	72.7
60851-34-5	2,3,4,6,7,8-HxCDF	J	5.41	pg/g	2.30	72.7
72918-21-9	1,2,3,7,8,9-HxCDF	U	3.49	pg/g	3.49	72.7
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	49.6	pg/g	2.67	72.7
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	4.07	pg/g	4.07	72.7
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	108	pg/g	3.81	145
41903-57-5	Total TeCDD	J	2.76	pg/g	2.53	14.5
36088-22-9	Total PeCDD	JK	22.8	pg/g	2.10	72.7
34465-46-8	Total HxCDD	JK	106	pg/g	2.47	72.7
37871-00-4	Total HpCDD		693	pg/g	8.95	72.7
30402-14-3	Total TeCDF	JK	19.3	pg/g	4.04	14.5
30402-15-4	Total PeCDF	JK	57.1	pg/g	0.721	72.7
55684-94-1	Total HxCDF	JK	85.3	pg/g	2.29	72.7
38998-75-3	Total HpCDF	J	137	pg/g	2.67	72.7
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		20.4	pg/g		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		20.8	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		2290	2910	pg/g	78.7	(25%-164%)
13C-1,2,3,7,8-PeCDD		2830	2910	pg/g	97.4	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		2030	2910	pg/g	69.7	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		2060	2910	pg/g	71.0	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		2390	2910	pg/g	82.2	(23%-140%)
13C-OCDD		4660	5810	pg/g	80.2	(17%-157%)
13C-2,3,7,8-TCDF		2490	2910	pg/g	85.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		2840	2910	pg/g	97.8	(24%-185%)
13C-2,3,4,7,8-PeCDF		2890	2910	pg/g	99.5	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		2050	2910	pg/g	70.4	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		2000	2910	pg/g	68.9	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		2080	2910	pg/g	71.5	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		2090	2910	pg/g	72.0	(29%-147%)

APEX00320

SOIL

Page 2

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 SDG Number: 17535002 Lab Sample ID: 1613B Soil **Client Sample:** Client ID: CB-2

Client: **Date Collected:** Date Received:

APEX001 12/17/2020 08:50 12/22/2020 13:00 **Project:** Matrix: %Moisture:

32.5 **Prep Basis: Dry Weight**

Batch ID: 45696 **Run Date:** 01/04/2021 01:28

Data File: A03JAN21A_2-9 EPA Method 1613B MJC

Instrument: HRP750

45694 Prep Batch:

SW846 3540C **Prep Method:** 1.02 g

Dilution: 1

Prep Aliquot: Prep Date: 28-DEC-20

PQL CAS No. Qual Units **EDL Parmname** Result

Method:

Analyst:

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		2190	2910	pg/g	75.2	(28%-143%)
3C-1,2,3,4,7,8,9-HpCDF		2340	2910	pg/g	80.6	(26%-138%)
37Cl-2,3,7,8-TCDD		250	291	pg/g	86.0	(35%-197%)

Comments:

- В The target analyte was detected in the associated blank.
- Value is estimated J
- K **Estimated Maximum Possible Concentration**
- Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 SDG Number: 17535003 Lab Sample ID: 1613B Soil **Client Sample:** Client ID: CB-3 **Batch ID:** 45696

01/04/2021 02:16 **Run Date:** Data File: A03JAN21A_2-10

45694 Prep Batch: Prep Date: 28-DEC-20

APEX001 Client: **Date Collected:** Date Received:

Method:

Analyst:

Prep Method:

12/17/2020 09:15 12/22/2020 13:00

EPA Method 1613B

MJC

SW846 3540C

APEX00320 **Project:** Matrix: SOIL %Moisture:

44.5 Dry Weight

HRP750

Instrument: Dilution: 1

Prep Basis:

CAS No. Parmname Qual Result Units EDL 1746-01-6 2,37,8-TCDD U 4.20 pg/g 4.20 40321-76-4 1,2,3,7,8-PcCDD JK 9.26 pg/g 4.09 39227-28-6 1,2,3,4,7,8-HxCDD JK 7.38 pg/g 5.59 57653-85-7 1,2,3,6,7,8-HxCDD J 13.0 pg/g 5.38 19408-74-3 1,2,3,7,8-PtxCDD J 13.7 pg/g 5.56 38822-46-9 1,2,3,4,6,7,8-PcCDD 300 pg/g 15.5 51207-31-9 2,37,8-TCDF JK 5.80 pg/g 4.20 57117-41-6 1,2,3,7,8-PeCDF JK 4.47 pg/g 3.07 57117-41-6 1,2,3,7,8-PeCDF JK 5.28 pg/g 2.87 70648-26-9 1,2,3,4,7,8-PeCDF JK 6.05 pg/g 3.45 57117-41-9 1,2,3,4,7,8-PeCDF JK 6.05 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 6.05 pg/g 3.53 57117-44-9 1,2,3,4,7,8-PeCDF J 5.03	Prep Baten: Prep Date:	28-DEC-20	_ •				
40321-76-4 1,2,3,7,8-PeCDD	CAS No.	Parmname	Qual	Result	Units	EDL	PQL
39227-28-6 1,2,3,4,7,8-HxCDD JK 7,38 pg/g 5.59 57653-85-7 1,2,3,6,7,8-HxCDD J 13.0 pg/g 5.38 19408-74-3 1,2,3,7,8,9-HxCDD J 13.7 pg/g 5.56 35822-46-9 1,2,3,4,6,7,8-HyCDD 300 pg/g 15.5 51207-31-9 2,3,7,8-TCDF JK 5.80 pg/g 4.20 57117-41-6 1,2,3,7,8-PCDF JK 4.47 pg/g 3.07 57117-31-4 2,3,4,7,8-PCDF JK 5.28 pg/g 2.87 70648-26-9 1,2,3,4,7,8-HxCDF JK 6.05 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 6.05 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 5.38 pg/g 3.60 72918-21-9 1,2,3,4,6,7,8-PCDF J 5.03 pg/g 5.03 67562-39-4 1,2,3,4,6,7,8-PCDF J 59.0 pg/g 8.53 39001-02-0 1,2,3,4,6,7	1746-01-6	2,3,7,8-TCDD	U	4.20	pg/g	4.20	17.5
57653-85-7 1,2,3,6,7,8-HxCDD J 13.0 pg/g 5.38 19408-74-3 1,2,3,7,8,9-HxCDD J 13.7 pg/g 5.56 38822-46-9 1,2,3,4,6,7,8-HpCDD 300 pg/g 13.8 3268-87-9 1,2,3,4,6,7,8-9-CDD 3320 pg/g 4.20 57117-41-6 1,2,3,7,8-PCDF JK 5.80 pg/g 3.07 57117-31-4 2,3,4,7,8-PCDF JK 4.47 pg/g 3.07 57117-31-4 2,3,4,7,8-PCDF JK 5.28 pg/g 2.87 70648-26-9 1,2,3,4,7,8-HxCDF JK 6.05 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 5.38 pg/g 3.60 72918-21-9 1,2,3,7,8,9-HxCDF J 5.03 pg/g 5.03 67562-39-4 1,2,3,4,7,8-HpCDF J 59.0 pg/g 5.03 67652-39-4 1,2,3,4,7,8-HpCDF J 59.0 pg/g 8.53 39001-02-0 1,2,3,4,7,8-9CDF <	40321-76-4	1,2,3,7,8-PeCDD	JK	9.26	pg/g	4.09	87.4
19408-74-3 1,2,3,7,8,9-HxCDD J 13.7 pg/g 5.56 35822-46-9 1,2,3,4,6,7,8-HpCDD 300 pg/g 13.8 3268-87-9 1,2,3,4,6,7,8-9-CDD 3320 pg/g 4.20 57117-31-9 2,3,7,8-PcDF JK 5.80 pg/g 4.20 57117-31-4 2,3,4,7,8-PcDF JK 5.28 pg/g 2.87 70648-26-9 1,2,3,4,7,8-HxCDF J 7.59 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 6.05 pg/g 3.60 72918-21-9 1,2,3,7,8,9-HxCDF J 5.03 pg/g 5.03 67562-39-4 1,2,3,4,6,7,8-HyCDF J 5.90 pg/g 5.42 55673-89-7 1,2,3,4,6,7,8-HyCDF J 59.0 pg/g 6.08 41903-57-5 Total TeCDD J 8.53 pg/g 6.08 41903-57-5 Total PeCDD JK 34.3 pg/g 4.20 36088-22-9 Total PeCDD JK	39227-28-6	1,2,3,4,7,8-HxCDD	JK	7.38	pg/g	5.59	87.4
35822-46-9 1,2,3,4,6,7,8-HpCDD 300 pg/g 13.8 3268-87-9 1,2,3,4,6,7,8,9-OCDD 3320 pg/g 15.5 51207-31-9 2,3,7,8-TCDF JK 5.80 pg/g 4.20 57117-41-6 1,2,3,7,8-PeCDF JK 4.47 pg/g 3.07 57117-31-4 2,3,4,7,8-PeCDF JK 5.28 pg/g 2.87 70648-26-9 1,2,3,4,7,8-HxCDF JK 6.05 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 5.38 pg/g 3.60 72918-21-9 1,2,3,7,8,9-HxCDF J 5.03 pg/g 5.03 67562-39-4 1,2,3,4,6,8-HxCDF J 59.0 pg/g 5.42 55673-89-7 1,2,3,4,7,8,9-HpCDF J 59.0 pg/g 8.53 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 112 pg/g 6.08 41903-57-5 Total PCDD JK 34.3 pg/g 4.20 3608-22-9 Total PCDD JK 34.3 pg/g 5.38 37871-00-4 Total HpCDF	57653-85-7	1,2,3,6,7,8-HxCDD	J	13.0	pg/g	5.38	87.4
3268-87-9 1,2,3,4,6,7,8,9-OCDD 3320 pg/g 15.5 51207-31-9 2,3,7,8-TCDF JK 5.80 pg/g 4.20 57117-41-6 1,2,3,7,8-PeCDF JK 4.47 pg/g 3.07 57117-31-4 2,3,4,7,8-PeCDF JK 5.28 pg/g 2.87 70648-26-9 1,2,3,4,8-HxCDF J 7.59 pg/g 3.45 57117-44-9 1,2,3,6,7,8-HxCDF JK 6.05 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 5.38 pg/g 3.60 72918-21-9 1,2,3,7,8,9-HxCDF J 5.03 pg/g 5.03 67562-39-4 1,2,3,4,6,7,8-HpCDF J 5.90 pg/g 5.42 55673-89-7 1,2,3,4,6,7,8-HpCDF J 8.53 pg/g 8.53 39001-02-0 1,2,3,4,6,7,8-PCDF J 112 pg/g 6.08 41903-57-5 Total TeCDD J 4.20 pg/g 4.20 36088-22-9 Total PeCDD JK 34.3 pg/g 5.38 37871-00-4 To	19408-74-3	1,2,3,7,8,9-HxCDD	J	13.7	pg/g	5.56	87.4
51207-31-9 2,3,7,8-TCDF JK 5.80 pg/g 4.20 57117-41-6 1,2,3,7,8-PeCDF JK 4.47 pg/g 3.07 57117-31-4 2,3,4,7,8-PeCDF JK 5.28 pg/g 2.87 70648-26-9 1,2,3,4,7,8-HxCDF J 7.59 pg/g 3.45 57117-44-9 1,2,3,6,7,8-HxCDF JK 6.05 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 5.38 pg/g 3.60 72918-21-9 1,2,3,4,6,7,8-HxCDF U 5.03 pg/g 5.03 67562-39-4 1,2,3,4,6,7,8-HpCDF J 59.0 pg/g 5.42 55673-89-7 1,2,3,4,7,8,9-HpCDF U 8.53 pg/g 8.53 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 112 pg/g 6.08 41903-57-5 Total TeCDD JK 34.3 pg/g 4.20 36088-22-9 Total PeCDD JK 125 pg/g 5.38 37871-00-4 <t< td=""><td>35822-46-9</td><td>1,2,3,4,6,7,8-HpCDD</td><td></td><td>300</td><td>pg/g</td><td>13.8</td><td>87.4</td></t<>	35822-46-9	1,2,3,4,6,7,8-HpCDD		300	pg/g	13.8	87.4
57117-41-6 1,2,3,7,8-PeCDF JK 4.47 pg/g 3.07 57117-31-4 2,3,4,7,8-PeCDF JK 5.28 pg/g 2.87 70648-26-9 1,2,3,4,7,8-HxCDF J 7.59 pg/g 3.45 57117-44-9 1,2,3,6,7,8-HxCDF JK 6.05 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 5.38 pg/g 3.60 72918-21-9 1,2,3,7,8,9-HxCDF J 503 pg/g 5.03 67562-39-4 1,2,3,4,6,7,8-HpCDF J 59.0 pg/g 5.42 55673-89-7 1,2,3,4,6,7,8,9-HpCDF J 8.53 pg/g 8.53 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 112 pg/g 6.08 41903-57-5 Total TeCDD U 4.20 pg/g 4.20 36088-22-9 Total PeCDD JK 34.3 pg/g 5.38 37871-00-4 Total HxCDD JK 17.7 pg/g 4.20 30402-14-3	3268-87-9	1,2,3,4,6,7,8,9-OCDD		3320	pg/g	15.5	175
57117-31-4 2,3,4,7,8-PeCDF JK 5.28 pg/g 2.87 70648-26-9 1,2,3,4,7,8-HxCDF J 7.59 pg/g 3.45 57117-44-9 1,2,3,6,7,8-HxCDF JK 6.05 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 5.38 pg/g 5.03 67562-39-1 1,2,3,7,8,9-HxCDF U 5.03 pg/g 5.03 67562-39-4 1,2,3,4,6,7,8-HpCDF J 59.0 pg/g 5.42 55673-89-7 1,2,3,4,6,7,8,9-HpCDF U 8.53 pg/g 6.08 41903-57-5 Total TeCDD U 4.20 pg/g 4.20 36088-22-9 Total PeCDD JK 34.3 pg/g 4.09 34465-46-8 Total HxCDD JK 12.5 pg/g 5.38 37871-00-4 Total HpCDD 631 pg/g 5.38 30402-14-3 Total PeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 66.7 pg/g 3.45 38998-75-3 Total HpCDF	51207-31-9	2,3,7,8-TCDF	JK	5.80	pg/g	4.20	17.5
70648-26-9 1,2,3,4,7,8-HxCDF JK 6.05 pg/g 3.45 57117-44-9 1,2,3,6,7,8-HxCDF JK 5.38 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 5.38 pg/g 3.60 72918-21-9 1,2,3,7,8,9-HxCDF U 5.03 pg/g 5.03 67562-39-4 1,2,3,4,6,7,8-HpCDF J 59.0 pg/g 5.42 55673-89-7 1,2,3,4,7,8,9-HpCDF U 8.53 pg/g 8.53 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 1112 pg/g 6.08 41903-57-5 Total TeCDD U 4.20 pg/g 4.20 36088-22-9 Total PeCDD JK 34.3 pg/g 4.09 34465-46-8 Total HxCDD JK 125 pg/g 5.38 37871-00-4 Total HpCDD 631 pg/g 13.8 30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 91.6 pg/g 3.45 38998-75-3 Total HxCDF JK 91.6 pg/g 3.45 38998-75-3 Total HxCDF JK 149 pg/g 5.42	57117-41-6	1,2,3,7,8-PeCDF	JK	4.47	pg/g	3.07	87.4
57117-44-9 1,2,3,6,7,8-HxCDF JK 6.05 pg/g 3.53 60851-34-5 2,3,4,6,7,8-HxCDF JK 5.38 pg/g 3.60 72918-21-9 1,2,3,7,8,9-HxCDF U 5.03 pg/g 5.03 67562-39-4 1,2,3,4,6,7,8-HpCDF J 59.0 pg/g 5.42 55673-89-7 1,2,3,4,7,8,9-HpCDF U 8.53 pg/g 8.53 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 112 pg/g 6.08 41903-57-5 Total TeCDD U 4.20 pg/g 4.20 36088-22-9 Total PeCDD JK 34.3 pg/g 5.38 37871-00-4 Total HxCDD JK 125 pg/g 5.38 30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 66.7 pg/g 3.45 55684-94-1 Total HxCDF JK 91.6 pg/g 5.42	57117-31-4	2,3,4,7,8-PeCDF	JK	5.28	pg/g	2.87	87.4
60851-34-5 2,3,4,6,7,8-HxCDF JK 5.38 pg/g 3.60 72918-21-9 1,2,3,7,8,9-HxCDF U 5.03 pg/g 5.03 67562-39-4 1,2,3,4,6,7,8-HpCDF J 59.0 pg/g 5.42 55673-89-7 1,2,3,4,7,8,9-HpCDF U 8.53 pg/g 8.53 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 1112 pg/g 6.08 41903-57-5 Total TeCDD U 4.20 pg/g 4.20 36088-22-9 Total PeCDD JK 34.3 pg/g 4.09 34465-46-8 Total HxCDD JK 125 pg/g 5.38 37871-00-4 Total HpCDD JK 17.7 pg/g 13.8 30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 91.6 pg/g 3.45 38998-75-3 Total HxCDF JK 91.6 pg/g 5.42	70648-26-9	1,2,3,4,7,8-HxCDF	J	7.59	pg/g	3.45	87.4
72918-21-9 1,2,3,7,8,9-HxCDF U 5.03 pg/g 5.03 67562-39-4 1,2,3,4,6,7,8-HpCDF J 59.0 pg/g 5.42 55673-89-7 1,2,3,4,7,8,9-HpCDF U 8.53 pg/g 8.53 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 112 pg/g 6.08 41903-57-5 Total TeCDD U 4.20 pg/g 4.20 36088-22-9 Total PeCDD JK 34.3 pg/g 4.09 34465-46-8 Total HxCDD JK 125 pg/g 5.38 37871-00-4 Total HpCDD 631 pg/g 13.8 30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 66.7 pg/g 1.06 55684-94-1 Total HxCDF JK 91.6 pg/g 5.42 38998-75-3 Total HpCDF JK 149 pg/g 5.42	57117-44-9	1,2,3,6,7,8-HxCDF	JK	6.05	pg/g	3.53	87.4
67562-39-4 1,2,3,4,6,7,8-HpCDF J 59.0 pg/g 5.42 55673-89-7 1,2,3,4,7,8,9-HpCDF U 8.53 pg/g 8.53 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 1112 pg/g 6.08 41903-57-5 Total TeCDD U 4.20 pg/g 4.20 36088-22-9 Total PeCDD JK 34.3 pg/g 4.09 34465-46-8 Total HxCDD JK 125 pg/g 5.38 37871-00-4 Total HpCDD 631 pg/g 13.8 30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 91.6 pg/g 3.45 55684-94-1 Total HxCDF JK 91.6 pg/g 3.45 38998-75-3 Total HpCDF JK 149 pg/g 5.42	60851-34-5	2,3,4,6,7,8-HxCDF	JK	5.38	pg/g	3.60	87.4
55673-89-7 1,2,3,4,7,8,9-HpCDF U 8.53 pg/g 8.53 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 112 pg/g 6.08 41903-57-5 Total TeCDD U 4.20 pg/g 4.20 36088-22-9 Total PeCDD JK 34.3 pg/g 4.09 34465-46-8 Total HxCDD JK 125 pg/g 5.38 37871-00-4 Total HpCDD 631 pg/g 13.8 30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 66.7 pg/g 1.06 55684-94-1 Total HxCDF JK 91.6 pg/g 3.45 38998-75-3 Total HpCDF JK 149 pg/g 5.42	72918-21-9	1,2,3,7,8,9-HxCDF	U	5.03	pg/g	5.03	87.4
39001-02-0 1,2,3,4,6,7,8,9-OCDF J 112 pg/g 6.08 41903-57-5 Total TeCDD U 4.20 pg/g 4.20 36088-22-9 Total PeCDD JK 34.3 pg/g 4.09 34465-46-8 Total HxCDD JK 125 pg/g 5.38 37871-00-4 Total HpCDD 631 pg/g 13.8 30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 66.7 pg/g 1.06 55684-94-1 Total HxCDF JK 91.6 pg/g 3.45 38998-75-3 Total HpCDF JK 149 pg/g 5.42	67562-39-4	1,2,3,4,6,7,8-HpCDF	J	59.0	pg/g	5.42	87.4
41903-57-5 Total TeCDD U 4.20 pg/g 4.20 36088-22-9 Total PeCDD JK 34.3 pg/g 4.09 34465-46-8 Total HxCDD JK 125 pg/g 5.38 37871-00-4 Total HpCDD 631 pg/g 13.8 30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 66.7 pg/g 1.06 55684-94-1 Total HxCDF JK 91.6 pg/g 3.45 38998-75-3 Total HpCDF JK 149 pg/g 5.42	55673-89-7	1,2,3,4,7,8,9-HpCDF	U	8.53	pg/g	8.53	87.4
36088-22-9 Total PeCDD JK 34.3 pg/g 4.09 34465-46-8 Total HxCDD JK 125 pg/g 5.38 37871-00-4 Total HpCDD 631 pg/g 13.8 30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 66.7 pg/g 1.06 55684-94-1 Total HxCDF JK 91.6 pg/g 3.45 38998-75-3 Total HpCDF JK 149 pg/g 5.42	39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	112	pg/g	6.08	175
34465-46-8 Total HxCDD JK 125 pg/g 5.38 37871-00-4 Total HpCDD 631 pg/g 13.8 30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 66.7 pg/g 1.06 55684-94-1 Total HxCDF JK 91.6 pg/g 3.45 38998-75-3 Total HpCDF JK 149 pg/g 5.42	41903-57-5	Total TeCDD	U	4.20	pg/g	4.20	17.5
37871-00-4 Total HpCDD 631 pg/g 13.8 30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 66.7 pg/g 1.06 55684-94-1 Total HxCDF JK 91.6 pg/g 3.45 38998-75-3 Total HpCDF JK 149 pg/g 5.42	36088-22-9	Total PeCDD	JK	34.3	pg/g	4.09	87.4
30402-14-3 Total TeCDF JK 17.7 pg/g 4.20 30402-15-4 Total PeCDF JK 66.7 pg/g 1.06 55684-94-1 Total HxCDF JK 91.6 pg/g 3.45 38998-75-3 Total HpCDF JK 149 pg/g 5.42	34465-46-8	Total HxCDD	JK	125	pg/g	5.38	87.4
30402-15-4 Total PeCDF JK 66.7 pg/g 1.06 55684-94-1 Total HxCDF JK 91.6 pg/g 3.45 38998-75-3 Total HpCDF JK 149 pg/g 5.42	37871-00-4	Total HpCDD		631	pg/g	13.8	87.4
55684-94-1 Total HxCDF JK 91.6 pg/g 3.45 38998-75-3 Total HpCDF JK 149 pg/g 5.42	30402-14-3	Total TeCDF	JK	17.7	pg/g	4.20	17.5
38998-75-3 Total HpCDF JK 149 pg/g 5.42	30402-15-4	Total PeCDF	JK	66.7	pg/g	1.06	87.4
	55684-94-1	Total HxCDF	JK	91.6	pg/g	3.45	87.4
3333-30-2 TEO WHO2005 ND=0 with FMPCs 21.5 pg/g	38998-75-3	Total HpCDF	JK	149	pg/g	5.42	87.4
5555-50-2 TEQ WI102005 TVD=0 WIII EMICS 21.5 Pg/g	3333-30-2	TEQ WHO2005 ND=0 with EMPCs		21.5	pg/g		
3333-30-3 TEQ WHO2005 ND=0.5 with EMPCs 23.9 pg/g	3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		23.9	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		2450	3500	pg/g	70.2	(25%-164%)
13C-1,2,3,7,8-PeCDD		2650	3500	pg/g	75.7	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		2370	3500	pg/g	67.8	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		2430	3500	pg/g	69.6	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		2680	3500	pg/g	76.8	(23%-140%)
13C-OCDD		5190	6990	pg/g	74.2	(17%-157%)
13C-2,3,7,8-TCDF		2700	3500	pg/g	77.3	(24%-169%)
13C-1,2,3,7,8-PeCDF		2720	3500	pg/g	77.8	(24%-185%)
13C-2,3,4,7,8-PeCDF		2740	3500	pg/g	78.4	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		2400	3500	pg/g	68.8	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		2410	3500	pg/g	68.9	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		2460	3500	pg/g	70.2	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		2480	3500	pg/g	71.0	(29%-147%)

Page 2

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 SDG Number: 17535003 Lab Sample ID: 1613B Soil **Client Sample:** Client ID:

CB-3

Batch ID: 45696 **Run Date:** 01/04/2021 02:16 A03JAN21A_2-10

Data File: 45694 Prep Batch: **Prep Date:** 28-DEC-20 Client: **Date Collected:** Date Received:

Method:

Analyst:

Qual

APEX001 12/17/2020 09:15 12/22/2020 13:00

EPA Method 1613B

Project: Matrix: %Moisture:

EDL

Units

APEX00320 SOIL

PQL

44.5

Prep Basis: Dry Weight

Instrument: HRP750 Dilution: 1

SW846 3540C **Prep Method:**

Prep Aliquot: 1.03 g

Result

MJC

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		2490	3500	pg/g	71.1	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		2460	3500	pg/g	70.4	(26%-138%)
37Cl-2,3,7,8-TCDD		264	350	pg/g	75.4	(35%-197%)

Comments:

CAS No.

Value is estimated J

Estimated Maximum Possible Concentration K

Analyte was analyzed for, but not detected above the specified detection limit.

Parmname

Report Date: January 11, 2021 Page 1

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

APEX00320 SDG Number: A0L0698 Client: APEX001 Project: 17535004 12/17/2020 11:00 Lab Sample ID: **Date Collected:** Matrix: SOIL 74.5 1613B Soil 12/22/2020 13:00 %Moisture: Date Received: **Client Sample: Client ID:** CB-4 **Prep Basis: Dry Weight Batch ID:** 45696 Method: EPA Method 1613B **HRP750** Run Date: 01/04/2021 03:04 Analyst: MJC **Instrument:** Data File: A03JAN21A_2-11 Dilution: 1 SW846 3540C **Prep Method:** Prep Batch: 45694 **Prep Aliquot:** 1.2 g **Prep Date:** 28-DEC-20 **EDL PQL** CAS No. **Parmname** Qual Result Units 1746-01-6 2,3,7,8-TCDD U 5.83 5.83 32.7 pg/g JK 40321-76-4 1,2,3,7,8-PeCDD 19.4 pg/g 5.47 163 39227-28-6 1,2,3,4,7,8-HxCDD J 22.3 6.80 163 pg/g 1,2,3,6,7,8-HxCDD J 57653-85-7 61.5 pg/g 6.54 163 19408-74-3 1,2,3,7,8,9-HxCDD J 45.9 pg/g 6.80 163 35822-46-9 1,2,3,4,6,7,8-HpCDD 1990 25.5 163 pg/g 3268-87-9 1,2,3,4,6,7,8,9-OCDD 20100 20.2 327 pg/g 51207-31-9 2,3,7,8-TCDF JK 26.9 9.02 32.7 pg/g 57117-41-6 1,2,3,7,8-PeCDF J 20.3 pg/g 3.50 163 57117-31-4 2,3,4,7,8-PeCDF J 33.5 3.11 163 pg/g 70648-26-9 1,2,3,4,7,8-HxCDF 44.8 5.80 163 pg/g 57117-44-9 1,2,3,6,7,8-HxCDF J 40.5 pg/g 5.60 163 60851-34-5 2,3,4,6,7,8-HxCDF JK 163 39.8 5.69 pg/g 72918-21-9 1,2,3,7,8,9-HxCDF JK 13.5 7.97 163 pg/g 67562-39-4 1,2,3,4,6,7,8-HpCDF 518 pg/g 8.50 163 55673-89-7 1,2,3,4,7,8,9-HpCDF J 33.9 12.5 163 pg/g 39001-02-0 1,2,3,4,6,7,8,9-OCDF 9.02 327 1160 pg/g JK 41903-57-5 Total TeCDD 11.0 5.83 32.7 pg/g JK 36088-22-9 Total PeCDD 111 5.47 163 pg/g Total HxCDD 34465-46-8 J 539 6.54 163 pg/g 37871-00-4 Total HpCDD 3980 pg/g 25.5 163 30402-14-3 Total TeCDF IK 9.02 32.7 348 pg/g 30402-15-4 Total PeCDF JK 365 2.03 163 pg/g 55684-94-1 Total HxCDF JK 637 5.60 163 pg/g 38998-75-3 Total HpCDF J 1480 pg/g 8.50 163 3333-30-2 TEQ WHO2005 ND=0 with EMPCs 91.4 pg/g

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		5090	6540	pg/g	77.8	(25%-164%)
13C-1,2,3,7,8-PeCDD		6180	6540	pg/g	94.5	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		4350	6540	pg/g	66.5	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		4580	6540	pg/g	70.0	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		5320	6540	pg/g	81.4	(23%-140%)
13C-OCDD		10600	13100	pg/g	81.2	(17%-157%)
13C-2,3,7,8-TCDF		4990	6540	pg/g	76.3	(24%-169%)
13C-1,2,3,7,8-PeCDF		6350	6540	pg/g	97.2	(24%-185%)
13C-2,3,4,7,8-PeCDF		6360	6540	pg/g	97.3	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		4380	6540	pg/g	67.0	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		4410	6540	pg/g	67.4	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		4640	6540	pg/g	70.9	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		4710	6540	pg/g	72.0	(29%-147%)

94.3

pg/g

3333-30-3

TEQ WHO2005 ND=0.5 with EMPCs

APEX00320

Dry Weight

HRP750

PQL

SOIL

74.5

1

Page 2

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

APEX001

A0L0698 SDG Number: 17535004 Lab Sample ID: 1613B Soil **Client Sample:** Client ID:

CB-4 45696 01/04/2021 03:04

Parmname

Data File: A03JAN21A_2-11 45694 Prep Batch: **Prep Date:** 28-DEC-20

Date Received: 12/22/2020 13:00

Client:

Method:

Analyst:

Qual

Date Collected:

EPA Method 1613B MJC

12/17/2020 11:00

SW846 3540C **Prep Method: Prep Aliquot:** 1.2 g

Units

Project:

Matrix:

%Moisture:

Prep Basis:

Instrument:

EDL

Dilution:

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		4860	6540	pg/g	74.4	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		5140	6540	pg/g	78.6	(26%-138%)
37Cl-2,3,7,8-TCDD		563	654	pg/g	86.1	(35%-197%)

Result

Comments:

Batch ID:

Run Date:

CAS No.

Value is estimated J

Estimated Maximum Possible Concentration K

Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 SDG Number: 17535005 Lab Sample ID: 1613B Soil **Client Sample:** Client ID: CB-4_DUP **Batch ID:**

45696

01/04/2021 03:53 **Run Date:** Data File: A03JAN21A_2-12 45694

Prep Batch: Prep Date: 28-DEC-20

APEX001 Client: 12/17/2020 11:05 **Date Collected:** 12/22/2020 13:00 Date Received:

Method:

Analyst:

Prep Method:

EPA Method 1613B

MJC

SW846 3540C

APEX00320 **Project:** SOIL Matrix: %Moisture: 73.3

Dry Weight

Instrument: HRP750 Dilution: 1

Prep Basis:

Prep Date:	28-DEC-20	Prep Aliquot:	1.08 g				
CAS No.	Parmname	Qual	Result	Units	EDL	PQL	
1746-01-6	2,3,7,8-TCDD	U	5.18	pg/g	5.18	34.7	
40321-76-4	1,2,3,7,8-PeCDD	J	21.5	pg/g	7.09	174	
39227-28-6	1,2,3,4,7,8-HxCDD	JK	25.3	pg/g	6.00	174	
57653-85-7	1,2,3,6,7,8-HxCDD	J	70.1	pg/g	5.61	174	
19408-74-3	1,2,3,7,8,9-HxCDD	J	53.0	pg/g	5.88	174	
35822-46-9	1,2,3,4,6,7,8-HpCDD		1900	pg/g	20.6	174	
3268-87-9	1,2,3,4,6,7,8,9-OCDD		18000	pg/g	18.5	347	
51207-31-9	2,3,7,8-TCDF		39.9	pg/g	8.54	34.7	
57117-41-6	1,2,3,7,8-PeCDF	JK	36.5	pg/g	4.95	174	
57117-31-4	2,3,4,7,8-PeCDF	J	67.2	pg/g	4.86	174	
70648-26-9	1,2,3,4,7,8-HxCDF	J	69.2	pg/g	5.71	174	
57117-44-9	1,2,3,6,7,8-HxCDF	J	62.0	pg/g	5.43	174	
50851-34-5	2,3,4,6,7,8-HxCDF	J	60.3	pg/g	5.70	174	
72918-21-9	1,2,3,7,8,9-HxCDF	J	20.4	pg/g	8.20	174	
57562-39-4	1,2,3,4,6,7,8-HpCDF		570	pg/g	8.34	174	
55673-89-7	1,2,3,4,7,8,9-HpCDF	JK	45.3	pg/g	11.8	174	
39001-02-0	1,2,3,4,6,7,8,9-OCDF		1030	pg/g	9.66	347	
11903-57-5	Total TeCDD	JK	21.4	pg/g	5.18	34.7	
86088-22-9	Total PeCDD	JK	131	pg/g	7.09	174	
34465-46-8	Total HxCDD	JK	584	pg/g	5.61	174	
37871-00-4	Total HpCDD		3660	pg/g	20.6	174	
30402-14-3	Total TeCDF	JK	775	pg/g	8.54	34.7	
30402-15-4	Total PeCDF	JK	717	pg/g	1.31	174	
55684-94-1	Total HxCDF	JK	859	pg/g	5.43	174	
38998-75-3	Total HpCDF	JK	1480	pg/g	8.34	174	
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		115	pg/g			
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		117	pg/g			

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits	
13C-2,3,7,8-TCDD		5950	6950	pg/g	85.6	(25%-164%)	
13C-1,2,3,7,8-PeCDD		7120	6950	pg/g	103	(25%-181%)	
13C-1,2,3,4,7,8-HxCDD		5200	6950	pg/g	74.8	(32%-141%)	
13C-1,2,3,6,7,8-HxCDD		5170	6950	pg/g	74.4	(28%-130%)	
13C-1,2,3,4,6,7,8-HpCDD		6300	6950	pg/g	90.8	(23%-140%)	
13C-OCDD		12200	13900	pg/g	88.0	(17%-157%)	
13C-2,3,7,8-TCDF		5980	6950	pg/g	86.1	(24%-169%)	
13C-1,2,3,7,8-PeCDF		7290	6950	pg/g	105	(24%-185%)	
13C-2,3,4,7,8-PeCDF		7330	6950	pg/g	105	(21%-178%)	
13C-1,2,3,4,7,8-HxCDF		5200	6950	pg/g	74.8	(26%-152%)	
13C-1,2,3,6,7,8-HxCDF		5090	6950	pg/g	73.3	(26%-123%)	
13C-2,3,4,6,7,8-HxCDF		5300	6950	pg/g	76.3	(28%-136%)	
13C-1,2,3,7,8,9-HxCDF		5410	6950	pg/g	77.9	(29%-147%)	

45696

45694

28-DEC-20

01/04/2021 03:53

A03JAN21A_2-12

Report Date:

Page 2

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

MJC

A0L0698 SDG Number: 17535005 Lab Sample ID: 1613B Soil **Client Sample:** CB-4_DUP **Client ID:**

Client: **Date Collected:** Date Received:

Method:

Analyst:

APEX001 12/17/2020 11:05 12/22/2020 13:00

EPA Method 1613B

Project: Matrix: %Moisture: APEX00320 SOIL

73.3

Prep Basis: Dry Weight

Instrument: HRP750

Dilution:

1

SW846 3540C **Prep Method:**

Prep Aliquot: 1.08 g

PQL CAS No. Qual Units **EDL Parmname** Result

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		5740	6950	pg/g	82.6	(28%-143%)
3C-1,2,3,4,7,8,9-HpCDF		6040	6950	pg/g	87.0	(26%-138%)
37Cl-2,3,7,8-TCDD		610	695	pg/g	87.9	(35%-197%)

Comments:

Batch ID:

Run Date:

Data File:

Prep Batch:

Prep Date:

Value is estimated J

Estimated Maximum Possible Concentration K

Analyte was analyzed for, but not detected above the specified detection limit.

Cape Fear An	alytical LLC					Report Date:	January 11, 2021
		Certific	Dioxins/Furans rate of Analysis ble Summary			Page 1	of 1
SDG Number: Lab Sample ID: Client Sample:	A0L0698 17535005 1613B Soil	Client: Date Collected: Date Received:	APEX001 12/17/2020 11:05 12/22/2020 13:00		Project: Matrix: %Moisture:	APEX00320 SOIL 73.3	
Client ID: Batch ID:	CB-4_DUP 45696	Method:	EPA Method 1613B		Prep Basis:	Dry Weight	
Run Date: Data File: Prep Batch:	01/04/2021 12:24 e04jan21a-5 45694	Analyst: Prep Method:	MJC SW846 3540C		Instrument: Dilution:	HRP757 1	
Prep Date:	28-DEC-20	Prep Aliquot:	1.08 g				
CAS No.	Parmname	Qual	Result	Units	EDL	PQL	
51207-31-9 2,3,	7,8-TCDF		52.2	pg/g	13.3	34.7	

Nominal Units

Recovery%

Acceptable Limits

Comments:

J Value is estimated

Surrogate/Tracer recovery

- K Estimated Maximum Possible Concentration
- U Analyte was analyzed for, but not detected above the specified detection limit.

Qual

Result

Report Date: January 11, 2021 Page 1

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

SDG Number: A0L0698 Client: APEX001 Project: APEX00320 17535006 12/17/2020 11:35 Lab Sample ID: **Date Collected:** SOIL Matrix: 64.5 1613B Soil 12/22/2020 13:00 %Moisture: Date Received: **Client Sample: Client ID:** CB-5 **Prep Basis: Dry Weight Batch ID:** 45696 Method: EPA Method 1613B Run Date: 01/04/2021 04:41 Analyst: **MJC Instrument: HRP750** Data File: A03JAN21A_2-13 Dilution: 1 SW846 3540C Prep Batch: 45694 Prep Method: **Prep Aliquot:** 1.22 g **Prep Date:** 28-DEC-20 **PQL** CAS No. **Parmname** Qual Result Units **EDL** 1746-01-6 2,3,7,8-TCDD U 3.80 3.80 23.1 pg/g JK 40321-76-4 1,2,3,7,8-PeCDD 20.9 pg/g 3.78 116 39227-28-6 1,2,3,4,7,8-HxCDD JK 19.0 5.41 116 pg/g 57653-85-7 1,2,3,6,7,8-HxCDD J 60.9 5.45 116 pg/g 19408-74-3 1,2,3,7,8,9-HxCDD J 48.2 pg/g 5.50 116 35822-46-9 1,2,3,4,6,7,8-HpCDD 2630 19.8 116 pg/g 3268-87-9 1,2,3,4,6,7,8,9-OCDD 37100 18.7 231 pg/g 51207-31-9 2,3,7,8-TCDF J 12.7 4.99 23.1 pg/g 57117-41-6 1,2,3,7,8-PeCDF JK 9.71 pg/g 2.86 116 57117-31-4 2,3,4,7,8-PeCDF J 13.8 2.74 116 pg/g 70648-26-9 1,2,3,4,7,8-HxCDF J 24.1 3.51 116 pg/g IK 57117-44-9 1,2,3,6,7,8-HxCDF 18.5 pg/g 3.58 116 60851-34-5 2.3.4.6.7.8-HxCDF J 20.8 3.48 116 pg/g 72918-21-9 1,2,3,7,8,9-HxCDF JK 6.10 4.67 116 pg/g 67562-39-4 1,2,3,4,6,7,8-HpCDF 388 pg/g 7.30 116 55673-89-7 1,2,3,4,7,8,9-HpCDF J 25.0 11.0 116 pg/g 1,2,3,4,6,7,8,9-OCDF 794 39001-02-0 pg/g 7.63 231 41903-57-5 Total TeCDD J 16.5 3.80 23.1 pg/g 36088-22-9 Total PeCDD JK 120 3.78 116 pg/g Total HxCDD 34465-46-8 JK 529 5.41 116 pg/g 37871-00-4 Total HpCDD 5270 pg/g 19.8 116 30402-14-3 Total TeCDF ΙK 93.7 pg/g 4.99 23.1 30402-15-4 Total PeCDF JK 203 0.920 116 pg/g 55684-94-1 Total HxCDF JK 528 3.48 116 pg/g Total HpCDF 38998-75-3 J 1190 pg/g 7.30 116 3333-30-2 TEQ WHO2005 ND=0 with EMPCs 88.2 pg/g 3333-30-3 TEQ WHO2005 ND=0.5 with EMPCs 90.1 pg/g **Acceptable Limits** Surrogate/Tracer recovery Qual Result Nominal Units Recovery% 13C-2,3,7,8-TCDD 3790 4620 pg/g 82.1 (25%-164%) 13C-1,2,3,7,8-PeCDD 3430 4620 74.3 (25%-181%) pg/g 13C-1,2,3,4,7,8-HxCDD 3340 4620 pg/g 72.3 (32%-141%) 13C-1,2,3,6,7,8-HxCDD 3350 4620 pg/g 72.6 (28%-130%) 13C-1,2,3,4,6,7,8-HpCDD 4260 4620 92.1 (23%-140%) pg/g 13C-OCDD 8830 9240 95.5 (17%-157%) pg/g 13C-2,3,7,8-TCDF 3940 4620 85.2 (24%-169%) pg/g 13C-1,2,3,7,8-PeCDF 3470 4620 75.2 (24%-185%) pg/g 4620 13C-2,3,4,7,8-PeCDF 3430 74.3 (21%-178%) pg/g 13C-1,2,3,4,7,8-HxCDF 3260 4620 70.6 (26%-152%) pg/g 13C-1,2,3,6,7,8-HxCDF 2950 4620 63.7 (26%-123%) pg/g

3350

3390

4620

4620

pg/g

pg/g

72.4

73.3

(28%-136%)

(29%-147%)

13C-2,3,4,6,7,8-HxCDF

13C-1,2,3,7,8,9-HxCDF

Page 2

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

MJC

A0L0698 SDG Number: 17535006 Lab Sample ID: 1613B Soil **Client Sample:** Client ID:

CB-5 45696

01/04/2021 04:41 **Run Date:** Data File: A03JAN21A_2-13

45694 Prep Batch: **Prep Date:** 28-DEC-20 Client: **Date Collected:** Date Received:

Method:

Analyst:

APEX001 12/17/2020 11:35 12/22/2020 13:00

EPA Method 1613B

Project: Matrix: %Moisture:

Units

APEX00320 SOIL 64.5

PQL

Prep Basis: Dry Weight

Instrument: HRP750

Dilution: 1

EDL

SW846 3540C **Prep Method:**

Prep Aliquot: 1.22 g

Parmname Qual Result

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		3800	4620	pg/g	82.2	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		4150	4620	pg/g	89.8	(26%-138%)
37Cl-2,3,7,8-TCDD		348	462	pg/g	75.2	(35%-197%)

Comments:

Batch ID:

CAS No.

Value is estimated J

Estimated Maximum Possible Concentration K

Analyte was analyzed for, but not detected above the specified detection limit.

45694

Prep Batch:

Report Date: January 11, 2021 Page 1

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 APEX001 SDG Number: Client: 17535007 **Date Collected:** Lab Sample ID: 1613B Soil Date Received: **Client Sample:** Client ID: **CB-6 Batch ID:** 45696 Method: EPA Method 1613B 12/31/2020 03:12 **Run Date: Analyst:** MJC Data File: A30DEC20A_2-10

12/17/2020 13:10 12/22/2020 13:00 **Project:** Matrix: %Moisture: **Prep Basis:**

APEX00320 SOIL 62.4

Dry Weight

Instrument: HRP750 Dilution: 1

SW846 3540C **Prep Method: Prep Aliquot:** 1.25 g

Prep Date:	28-DEC-20	Prep Aliquot:	1.25 g			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	5.91	pg/g	5.91	21.3
40321-76-4	1,2,3,7,8-PeCDD	U	12.5	pg/g	12.5	106
39227-28-6	1,2,3,4,7,8-HxCDD	U	10.2	pg/g	10.2	106
57653-85-7	1,2,3,6,7,8-HxCDD	U	9.95	pg/g	9.95	106
19408-74-3	1,2,3,7,8,9-HxCDD	U	10.2	pg/g	10.2	106
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	57.0	pg/g	13.9	106
3268-87-9	1,2,3,4,6,7,8,9-OCDD		454	pg/g	11.6	213
51207-31-9	2,3,7,8-TCDF	U	7.65	pg/g	7.65	21.3
57117-41-6	1,2,3,7,8-PeCDF	U	7.69	pg/g	7.69	106
57117-31-4	2,3,4,7,8-PeCDF	U	6.93	pg/g	6.93	106
70648-26-9	1,2,3,4,7,8-HxCDF	J	6.25	pg/g	5.57	106
57117-44-9	1,2,3,6,7,8-HxCDF	U	5.57	pg/g	5.57	106
60851-34-5	2,3,4,6,7,8-HxCDF	U	5.95	pg/g	5.95	106
72918-21-9	1,2,3,7,8,9-HxCDF	U	7.18	pg/g	7.18	106
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	18.1	pg/g	7.31	106
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	9.14	pg/g	9.14	106
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	27.9	pg/g	9.69	213
41903-57-5	Total TeCDD	U	5.91	pg/g	5.91	21.3
36088-22-9	Total PeCDD	U	12.5	pg/g	12.5	106
34465-46-8	Total HxCDD	U	9.95	pg/g	9.95	106
37871-00-4	Total HpCDD	J	105	pg/g	13.9	106
30402-14-3	Total TeCDF	U	7.65	pg/g	7.65	21.3
30402-15-4	Total PeCDF	BJK	5.87	pg/g	3.05	106
55684-94-1	Total HxCDF	BJK	15.6	pg/g	5.57	106
38998-75-3	Total HpCDF	JK	51.3	pg/g	7.31	106
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		1.52	pg/g		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		14.7	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		3090	4250	pg/g	72.6	(25%-164%)
13C-1,2,3,7,8-PeCDD		2530	4250	pg/g	59.6	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		3030	4250	pg/g	71.3	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		2900	4250	pg/g	68.2	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		4060	4250	pg/g	95.6	(23%-140%)
13C-OCDD		8340	8500	pg/g	98.2	(17%-157%)
13C-2,3,7,8-TCDF		3600	4250	pg/g	84.8	(24%-169%)
13C-1,2,3,7,8-PeCDF		2280	4250	pg/g	53.6	(24%-185%)
13C-2,3,4,7,8-PeCDF		2350	4250	pg/g	55.3	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		2780	4250	pg/g	65.4	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		2560	4250	pg/g	60.3	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		2840	4250	pg/g	66.9	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		3060	4250	pg/g	72.1	(29%-147%)

Page 2

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 SDG Number: 17535007 Lab Sample ID: 1613B Soil **Client Sample:**

Client: **Date Collected:** Date Received:

APEX001 12/17/2020 13:10 12/22/2020 13:00

Project: Matrix: %Moisture:

APEX00320 SOIL

62.4

PQL

Prep Basis: Dry Weight

Client ID:

Prep Batch:

Prep Date:

CAS No.

CB-6

Batch ID: 45696

12/31/2020 03:12 **Run Date:** Data File: A30DEC20A_2-10

45694

28-DEC-20

Method: EPA Method 1613B Analyst: MJC

Instrument: HRP750 Dilution: 1

Prep Method:

Qual

SW846 3540C

Prep Aliquot: 1.25 g

EDL

Units

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		3330	4250	pg/g	78.3	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		3890	4250	pg/g	91.5	(26%-138%)
37Cl-2,3,7,8-TCDD		335	425	pg/g	78.8	(35%-197%)

Result

Comments:

The target analyte was detected in the associated blank. В

Parmname

- Value is estimated J
- K **Estimated Maximum Possible Concentration**
- Analyte was analyzed for, but not detected above the specified detection limit.

Report Date: January 11, 2021 Page 1

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 Client: APEX001 APEX00320 SDG Number: **Project:** 17535008 12/17/2020 12:30 **Date Collected:** SOIL Lab Sample ID: Matrix: 1613B Soil 12/22/2020 13:00 %Moisture: 65.2 Date Received: **Client Sample: Client ID: CB-7 Prep Basis: Dry Weight Batch ID:** 45696 Method: EPA Method 1613B 12/31/2020 04:00 **Instrument:** HRP750 **Run Date: Analyst:** MJC Dilution: 1 Data File: A30DEC20A_2-11

SW846 3540C **Prep Method: Prep Batch:** 45694 Prep Aliquot: 1.04 g **Prep Date:** 28-DEC-20

F	20 220 20		O			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	5.69	pg/g	5.69	27.6
40321-76-4	1,2,3,7,8-PeCDD	U	7.74	pg/g	7.74	138
39227-28-6	1,2,3,4,7,8-HxCDD	U	6.97	pg/g	6.97	138
57653-85-7	1,2,3,6,7,8-HxCDD	U	7.24	pg/g	7.24	138
19408-74-3	1,2,3,7,8,9-HxCDD	U	7.19	pg/g	7.19	138
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	108	pg/g	11.1	138
3268-87-9	1,2,3,4,6,7,8,9-OCDD		820	pg/g	15.2	276
51207-31-9	2,3,7,8-TCDF	U	7.52	pg/g	7.52	27.6
57117-41-6	1,2,3,7,8-PeCDF	U	5.42	pg/g	5.42	138
57117-31-4	2,3,4,7,8-PeCDF	U	5.26	pg/g	5.26	138
70648-26-9	1,2,3,4,7,8-HxCDF	JK	6.30	pg/g	6.25	138
57117-44-9	1,2,3,6,7,8-HxCDF	U	6.47	pg/g	6.47	138
60851-34-5	2,3,4,6,7,8-HxCDF	U	6.74	pg/g	6.74	138
72918-21-9	1,2,3,7,8,9-HxCDF	U	8.84	pg/g	8.84	138
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	28.9	pg/g	6.08	138
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	9.90	pg/g	9.90	138
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	43.3	pg/g	9.51	276
41903-57-5	Total TeCDD	U	5.69	pg/g	5.69	27.6
36088-22-9	Total PeCDD	U	7.74	pg/g	7.74	138
34465-46-8	Total HxCDD	JK	32.3	pg/g	6.97	138
37871-00-4	Total HpCDD	J	218	pg/g	11.1	138
30402-14-3	Total TeCDF	U	7.52	pg/g	7.52	27.6
30402-15-4	Total PeCDF	JK	16.2	pg/g	1.63	138
55684-94-1	Total HxCDF	JK	41.6	pg/g	6.25	138
38998-75-3	Total HpCDF	J	69.3	pg/g	6.08	138
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		2.26	pg/g		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		12.4	pg/g		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		4960	5530	pg/g	89.7	(25%-164%)
13C-1,2,3,7,8-PeCDD		6750	5530	pg/g	122	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		4020	5530	pg/g	72.8	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		3820	5530	pg/g	69.1	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		4210	5530	pg/g	76.2	(23%-140%)
13C-OCDD		7280	11100	pg/g	65.9	(17%-157%)
13C-2,3,7,8-TCDF		4590	5530	pg/g	83.0	(24%-169%)
13C-1,2,3,7,8-PeCDF		6390	5530	pg/g	116	(24%-185%)
13C-2,3,4,7,8-PeCDF		6480	5530	pg/g	117	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		3800	5530	pg/g	68.8	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		3580	5530	pg/g	64.8	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		3760	5530	pg/g	68.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		3950	5530	pg/g	71.4	(29%-147%)

45696

45694

28-DEC-20

12/31/2020 04:00

A30DEC20A_2-11

Report Date:

Page 2

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

MJC

A0L0698 SDG Number: 17535008 Lab Sample ID: 1613B Soil **Client Sample:** Client ID: **CB-7**

Client: **Date Collected:** Date Received:

APEX001 12/17/2020 12:30 12/22/2020 13:00

EPA Method 1613B

Project: Matrix: %Moisture: APEX00320 SOIL

Prep Basis: Dry Weight

65.2

PQL

Instrument: Dilution:

EDL

HRP750 1

SW846 3540C **Prep Method:**

Method:

Analyst:

Prep Aliquot: 1.04 g

CAS No. Units **Parmname** Qual Result

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		3810	5530	pg/g	68.9	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		3750	5530	pg/g	67.9	(26%-138%)
37Cl-2,3,7,8-TCDD		520	553	pg/g	94.2	(35%-197%)

Comments:

Batch ID:

Run Date:

Data File:

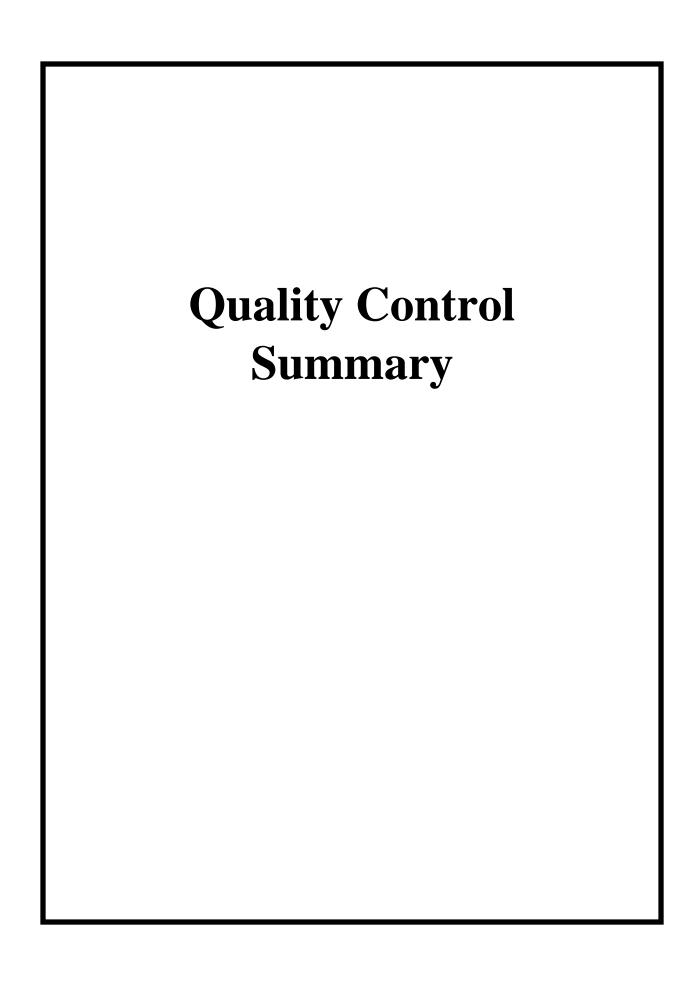
Prep Batch:

Prep Date:

Value is estimated J

Estimated Maximum Possible Concentration K

Analyte was analyzed for, but not detected above the specified detection limit.



of 4

Page 1

Hi-Res Dioxins/Furans Surrogate Recovery Report

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
7535007	CB-6	13C-2,3,7,8-TCDD		72.6	(25%-164%)
		13C-1,2,3,7,8-PeCDD		59.6	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		71.3	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		68.2	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		95.6	(23%-140%)
		13C-OCDD		98.2	(17%-157%)
		13C-2,3,7,8-TCDF		84.8	(24%-169%)
		13C-1,2,3,7,8-PeCDF		53.6	(24%-185%)
		13C-2,3,4,7,8-PeCDF		55.3	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		65.4	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		60.3	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		66.9	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		72.1	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		78.3	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		91.5	(26%-138%)
		37C1-2,3,7,8-TCDD		78.8	(35%-197%)
17535008	CB-7	13C-2,3,7,8-TCDD		89.7	(25%-164%)
.,		13C-1,2,3,7,8-PeCDD		122	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		72.8	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		69.1	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		76.2	(23%-140%)
		13C-OCDD		65.9	(17%-157%)
		13C-2,3,7,8-TCDF		83.0	(24%-169%)
		13C-1,2,3,7,8-PeCDF		116	(24%-185%)
		13C-2,3,4,7,8-PeCDF		117	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		68.8	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		64.8	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		68.1	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		71.4	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		68.9	(28%-143%)
		•		67.9	(26%-138%)
		13C-1,2,3,4,7,8,9-HpCDF 37Cl-2,3,7,8-TCDD		94.2	(35%-197%)
028284	LCS for batch 45694	13C-2,3,7,8-TCDD		77.2	(20%-175%)
028284	LCS for batch 43034	13C-1,2,3,7,8-PeCDD		82.3	(21%-227%)
		13C-1,2,3,4,7,8-FECDD		66.3	(21%-227%)
		13C-1,2,3,4,7,6-11XCDD		73.5	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		66.0	(22%-166%)
		13C-OCDD		56.9	(13%-199%)
		13C-2,3,7,8-TCDF		78.3	
		13C-1,2,3,7,8-PeCDF			(22%-152%) (21%-192%)
				84.6	` ,
		13C-2,3,4,7,8-PeCDF 13C-1,2,3,4,7,8-HxCDF		85.5	(13%-328%)
				69.8	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		73.3	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		72.6 72.0	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		72.0	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		65.8	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF 37Cl-2,3,7,8-TCDD		66.2 79.5	(20%-186%) (31%-191%)
2028285	LCSD for batch 45694	13C-2,3,7,8-TCDD		75.7	(20%-175%)

of 4

Page 2

Hi-Res Dioxins/Furans Surrogate Recovery Report

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
12028285	LCSD for batch 45694	13C-1,2,3,7,8-PeCDD		79.5	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		65.2	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		73.0	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		69.1	(22%-166%)
		13C-OCDD		64.2	(13%-199%)
		13C-2,3,7,8-TCDF		75.3	(22%-152%)
		13C-1,2,3,7,8-PeCDF		82.9	(21%-192%)
		13C-2,3,4,7,8-PeCDF		82.2	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		70.5	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		72.1	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		71.1	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		71.7	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		70.1	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		64.6	(20%-186%)
		37C1-2,3,7,8-TCDD		79.6	(31%-191%)
12028283	MB for batch 45694	13C-2,3,7,8-TCDD		74.7	(25%-164%)
		13C-1,2,3,7,8-PeCDD		75.7	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		64.7	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		72.9	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		75.4	(23%-140%)
		13C-OCDD		73.6	(17%-157%)
		13C-2,3,7,8-TCDF		76.5	(24%-169%)
		13C-1,2,3,7,8-PeCDF		79.9	(24%-185%)
		13C-2,3,4,7,8-PeCDF		80.6	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		66.7	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		72.1	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		71.2	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		72.4	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		73.5	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		74.2	(26%-138%)
		37Cl-2,3,7,8-TCDD		82.5	(35%-197%)
17535002	CB-2	13C-2,3,7,8-TCDD		78.7	(25%-164%)
		13C-1,2,3,7,8-PeCDD		97.4	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		69.7	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		71.0	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		82.2	(23%-140%)
		13C-OCDD		80.2	(17%-157%)
		13C-2,3,7,8-TCDF		85.6	(24%-169%)
		13C-1,2,3,7,8-PeCDF		97.8	(24%-185%)
		13C-2,3,4,7,8-PeCDF		99.5	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		70.4	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		68.9	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		71.5	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		72.0	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		75.2	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		80.6	(26%-138%)
		37Cl-2,3,7,8-TCDD		86.0	(35%-197%)
17535003	CB-3	13C-2,3,7,8-TCDD		70.2	(25%-164%)
	-	13C-1,2,3,7,8-PeCDD		75.7	(25%-181%)
		13C-1,2,3,7,0-FCCDD		13.1	(2370-10170)

of 4

Page 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
7535003	CB-3	13C-1,2,3,4,7,8-HxCDD		67.8	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		69.6	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		76.8	(23%-140%)
		13C-OCDD		74.2	(17%-157%)
		13C-2,3,7,8-TCDF		77.3	(24%-169%)
		13C-1,2,3,7,8-PeCDF		77.8	(24%-185%)
		13C-2,3,4,7,8-PeCDF		78.4	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		68.8	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		68.9	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		70.2	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		71.0	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		71.1	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		70.4	(26%-138%)
		37Cl-2,3,7,8-TCDD		75.4	(35%-197%)
7535004	CB-4	13C-2,3,7,8-TCDD		77.8	(25%-164%)
		13C-1,2,3,7,8-PeCDD		94.5	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		66.5	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		70.0	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		81.4	(23%-140%)
		13C-OCDD		81.2	(17%-157%)
		13C-2,3,7,8-TCDF		76.3	(24%-169%)
		13C-1,2,3,7,8-PeCDF		97.2	(24%-185%)
		13C-2,3,4,7,8-PeCDF		97.3	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		67.0	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		67.4	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		70.9	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		72.0	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		74.4	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		78.6	(26%-138%)
		37Cl-2,3,7,8-TCDD		86.1	(35%-197%)
7535005	CB-4_DUP	13C-2,3,7,8-TCDD		85.6	(25%-164%)
	_	13C-1,2,3,7,8-PeCDD		103	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		74.8	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		74.4	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		90.8	(23%-140%)
		13C-OCDD		88.0	(17%-157%)
		13C-2,3,7,8-TCDF		86.1	(24%-169%)
		13C-1,2,3,7,8-PeCDF		105	(24%-185%)
		13C-2,3,4,7,8-PeCDF		105	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		74.8	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		73.3	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		76.3	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		77.9	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		82.6	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		87.0	(26%-138%)
		37Cl-2,3,7,8-TCDD		87.9	(35%-197%)
7535006	CB-5	13C-2,3,7,8-TCDD		82.1	(25%-164%)
	- -	13C-1,2,3,7,8-PeCDD		74.3	(25%-181%)
		100 1,-,0,,,010000		,	

of 4

Page 4

Hi-Res Dioxins/Furans Surrogate Recovery Report

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
7535006	CB-5	13C-1,2,3,6,7,8-HxCDD		72.6	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		92.1	(23%-140%)
		13C-OCDD		95.5	(17%-157%)
		13C-2,3,7,8-TCDF		85.2	(24%-169%)
		13C-1,2,3,7,8-PeCDF		75.2	(24%-185%)
		13C-2,3,4,7,8-PeCDF		74.3	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		70.6	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		63.7	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		72.4	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		73.3	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		82.2	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		89.8	(26%-138%)
		37Cl-2,3,7,8-TCDD		75.2	(35%-197%)
7535001	CB-1	13C-2,3,7,8-TCDD		86.2	(25%-164%)
		13C-1,2,3,7,8-PeCDD		86.9	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		74.7	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		73.6	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		85.5	(23%-140%)
		13C-OCDD		80.5	(17%-157%)
		13C-2,3,7,8-TCDF		87.4	(24%-169%)
		13C-1,2,3,7,8-PeCDF		95.0	(24%-185%)
		13C-2,3,4,7,8-PeCDF		93.7	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		77.2	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		77.7	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		77.8	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		80.7	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		83.7	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		87.9	(26%-138%)
		37C1-2,3,7,8-TCDD		85.0	(35%-197%)

^{*} Recovery outside Acceptance Limits

[#] Column to be used to flag recovery values

D Sample Diluted

Page 1

of 2

Hi-Res Dioxins/Furans Quality Control Summary Spike Recovery Report

SDG Number: A0L0698 Sample Type: Laboratory Control Sample

Client ID: LCS for batch 45694 Matrix: SOIL

Lab Sample ID: 12028284

Instrument: HRP750 Analysis Date: 01/03/2021 19:02 Dilution: 1

Analyst: MJC Prep Batch ID:45694

			Batch	h ID: 456	96		
			Amount Added	Spike Conc.	Recovery	Acceptance	
CAS No.		Parmname	pg/g	pg/g	%	Limits	
1746-01-6	LCS	2,3,7,8-TCDD	20.0	17.3	86.3	67-158	
40321-76-4	LCS	1,2,3,7,8-PeCDD	100	99.2	99.2	70-142	
39227-28-6	LCS	1,2,3,4,7,8-HxCDD	100	97.1	97.1	70-164	
57653-85-7	LCS	1,2,3,6,7,8-HxCDD	100	97.0	97	76-134	
19408-74-3	LCS	1,2,3,7,8,9-HxCDD	100	97.9	97.9	64-162	
35822-46-9	LCS	1,2,3,4,6,7,8-HpCDD	100	91.2	91.2	70-140	
3268-87-9	LCS	1,2,3,4,6,7,8,9-OCDD	200	182	91.1	78-144	
51207-31-9	LCS	2,3,7,8-TCDF	20.0	17.6	87.8	75-158	
57117-41-6	LCS	1,2,3,7,8-PeCDF	100	91.3	91.3	80-134	
57117-31-4	LCS	2,3,4,7,8-PeCDF	100	95.3	95.3	68-160	
70648-26-9	LCS	1,2,3,4,7,8-HxCDF	100	92.3	92.3	72-134	
57117-44-9	LCS	1,2,3,6,7,8-HxCDF	100	93.4	93.4	84-130	
60851-34-5	LCS	2,3,4,6,7,8-HxCDF	100	88.9	88.9	70-156	
72918-21-9	LCS	1,2,3,7,8,9-HxCDF	100	94.1	94.1	78-130	
67562-39-4	LCS	1,2,3,4,6,7,8-HpCDF	100	88.8	88.8	82-122	
55673-89-7	LCS	1,2,3,4,7,8,9-HpCDF	100	90.4	90.4	78-138	
39001-02-0	LCS	1,2,3,4,6,7,8,9-OCDF	200	185	92.6	63-170	

Page 2

of 2

Hi-Res Dioxins/Furans

Quality Control Summary Spike Recovery Report

Sample Type: Laboratory Control Sample Duplicate A0L0698 **SDG Number:**

SOIL LCSD for batch 45694 **Matrix: Client ID:**

Lab Sample ID: 12028285

Instrument: HRP750 Analysis Date: 01/03/2021 19:50 Dilution: 1

Analyst: MJC Prep Batch ID:45694

Batch ID: 45696

CAS No.		Parmname	Amount Added pg/g	Spike Conc. pg/g	Recovery	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	20.0	17.6	88.2	67-158	2.21	0-20
40321-76-4	LCSD	1,2,3,7,8-PeCDD	100	101	101	70-142	1.40	0-20
39227-28-6	LCSD	1,2,3,4,7,8-HxCDD	100	102	102	70-164	4.70	0-20
57653-85-7	LCSD	1,2,3,6,7,8-HxCDD	100	94.5	94.5	76-134	2.61	0-20
19408-74-3	LCSD	1,2,3,7,8,9-HxCDD	100	99.9	99.9	64-162	2.08	0-20
35822-46-9	LCSD	1,2,3,4,6,7,8-HpCDD	100	92.8	92.8	70-140	1.80	0-20
3268-87-9	LCSD	1,2,3,4,6,7,8,9-OCDD	200	191	95.5	78-144	4.65	0-20
51207-31-9	LCSD	2,3,7,8-TCDF	20.0	18.7	93.3	75-158	6.14	0-20
57117-41-6	LCSD	1,2,3,7,8-PeCDF	100	93.7	93.7	80-134	2.55	0-20
57117-31-4	LCSD	2,3,4,7,8-PeCDF	100	99.9	99.9	68-160	4.70	0-20
70648-26-9	LCSD	1,2,3,4,7,8-HxCDF	100	92.9	92.9	72-134	0.618	0-20
57117-44-9	LCSD	1,2,3,6,7,8-HxCDF	100	95.8	95.8	84-130	2.51	0-20
60851-34-5	LCSD	2,3,4,6,7,8-HxCDF	100	95.1	95.1	70-156	6.69	0-20
72918-21-9	LCSD	1,2,3,7,8,9-HxCDF	100	94.0	94	78-130	0.136	0-20
67562-39-4	LCSD	1,2,3,4,6,7,8-HpCDF	100	92.9	92.9	82-122	4.58	0-20
55673-89-7	LCSD	1,2,3,4,7,8,9-HpCDF	100	91.0	91	78-138	0.684	0-20
39001-02-0	LCSD	1,2,3,4,6,7,8,9-OCDF	200	197	98.4	63-170	6.06	0-20

Page 1

of 1

Method Blank Summary

SDG Number: A0L0698 Client: APEX001 Matrix: SOIL

 Client ID:
 MB for batch 45694
 Instrument ID:
 HRP750
 Data File:
 A03JAN21A_2-3

 Lab Sample ID:
 12028283
 Prep Date:
 28-DEC-20
 Analyzed:
 01/03/21 20:38

Column:

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed
01 CB-6	17535007	A30DEC20A_2-10	12/31/20	0312
02 CB-7	17535008	A30DEC20A_2-11	12/31/20	0400
03 LCS for batch 45694	12028284	A03JAN21A_2-1	01/03/21	1902
04 LCSD for batch 45694	12028285	A03JAN21A_2-2	01/03/21	1950
05 CB-2	17535002	A03JAN21A_2-9	01/04/21	0128
06 CB-3	17535003	A03JAN21A_2-10	01/04/21	0216
07 CB-4	17535004	A03JAN21A_2-11	01/04/21	0304
08 CB-4_DUP	17535005	A03JAN21A_2-12	01/04/21	0353
09 CB-5	17535006	A03JAN21A_2-13	01/04/21	0441
10 CB-4_DUP	17535005	e04jan21a-5	01/04/21	1224
11 CB-1	17535001	A06JAN21A_2-5	01/06/21	1752

Report Date: January 11, 2021 Page 1

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

APEX001 **SDG Number:** A0L0698 **Client:** Project: APEX00320 12028283 Lab Sample ID: SOIL Matrix: QC for batch 45694 **Client Sample: Client ID:** MB for batch 45694 **Prep Basis:** As Received **Batch ID:** 45696 Method: EPA Method 1613B **HRP750** Run Date: 01/03/2021 20:38 Analyst: **MJC Instrument:** Data File: A03JAN21A_2-3 Dilution: 1 SW846 3540C Prep Batch: 45694 Prep Method: 10 g **Prep Aliquot: Prep Date:** 28-DEC-20 **PQL** CAS No. **Parmname** Qual Result Units **EDL** 1746-01-6 2,3,7,8-TCDD U 0.242 0.242 1.00 pg/g JK 40321-76-4 1,2,3,7,8-PeCDD 0.368 pg/g 0.200 5.00 39227-28-6 1,2,3,4,7,8-HxCDD JK 0.312 0.228 5.00 pg/g 57653-85-7 1,2,3,6,7,8-HxCDD JK 0.360 0.224 5.00 pg/g 1,2,3,7,8,9-HxCDD 19408-74-3 JK 0.394 pg/g 0.228 5.00 35822-46-9 1,2,3,4,6,7,8-HpCDD IK 0.490 0.384 5.00 pg/g 3268-87-9 1,2,3,4,6,7,8,9-OCDD J 1.53 0.406 10.0 pg/g 51207-31-9 2,3,7,8-TCDF U 0.246 0.246 1.00 pg/g 57117-41-6 1,2,3,7,8-PeCDF J 0.400 pg/g 0.167 5.00 57117-31-4 2,3,4,7,8-PeCDF JK 0.324 0.163 5.00 pg/g 70648-26-9 1,2,3,4,7,8-HxCDF 0.480 0.135 5.00 J pg/g IK 57117-44-9 1,2,3,6,7,8-HxCDF 0.328 pg/g 0.133 5.00 2,3,4,6,7,8-HxCDF 60851-34-5 J 0.314 0.139 5.00 pg/g 72918-21-9 1,2,3,7,8,9-HxCDF J 0.378 0.192 5.00 pg/g JK 67562-39-4 1,2,3,4,6,7,8-HpCDF 0.578 pg/g 0.1535.00 55673-89-7 1,2,3,4,7,8,9-HpCDF JK 0.338 0.242 5.00 pg/g 1,2,3,4,6,7,8,9-OCDF 0.286 39001-02-0 J 0.734 pg/g 10.0 U 41903-57-5 Total TeCDD 0.242 0.242 1.00 pg/g 36088-22-9 Total PeCDD JK 0.368 0.200 5.00 pg/g Total HxCDD 34465-46-8 JK 1.07 0.224 5.00 pg/g 37871-00-4 Total HpCDD JK 0.490pg/g 0.384 5.00 30402-14-3 Total TeCDF U 0.246 pg/g 0.246 1.00 30402-15-4 Total PeCDF JK 0.934 0.0922 5.00 pg/g 55684-94-1 Total HxCDF JK 1.69 0.133 5.00 pg/g 38998-75-3 Total HpCDF JK 0.916 pg/g 0.153 5.00 3333-30-2 TEQ WHO2005 ND=0 with EMPCs 0.749 pg/g 3333-30-3 TEQ WHO2005 ND=0.5 with EMPCs 0.882 pg/g **Acceptable Limits** Surrogate/Tracer recovery Qual Result Nominal Units Recovery% 13C-2,3,7,8-TCDD 149 200 pg/g 74.7 (25%-164%) 13C-1,2,3,7,8-PeCDD 151 200 75.7 (25%-181%) pg/g 13C-1,2,3,4,7,8-HxCDD 129 200 pg/g 64.7 (32%-141%) 13C-1,2,3,6,7,8-HxCDD 146 200 pg/g 72.9 (28%-130%) 13C-1,2,3,4,6,7,8-HpCDD 151 200 75.4 (23%-140%) pg/g 13C-OCDD 294 400 73.6 (17%-157%) pg/g 13C-2,3,7,8-TCDF 153 200 76.5 (24%-169%) pg/g 13C-1,2,3,7,8-PeCDF 160 200 79.9 (24%-185%) pg/g 13C-2,3,4,7,8-PeCDF 161 200 80.6 (21%-178%) pg/g 13C-1,2,3,4,7,8-HxCDF 133 200 66.7 (26%-152%) pg/g 13C-1,2,3,6,7,8-HxCDF 144 200 72.1 (26%-123%) pg/g

142

145

200

200

pg/g

pg/g

71.2

72.4

(28%-136%) (29%-147%)

13C-2,3,4,6,7,8-HxCDF

13C-1,2,3,7,8,9-HxCDF

Page 2

January 11, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

MJC

A0L0698 SDG Number: Lab Sample ID:

12028283

Client:

APEX001

Project: Matrix: APEX00320

SOIL

Client Sample: Client ID:

QC for batch 45694

MB for batch 45694

45696

Batch ID: 01/03/2021 20:38 **Run Date:** Data File:

A03JAN21A_2-3

Method:

Analyst:

Instrument:

As Received **HRP750**

Dilution:

Prep Basis:

1

45694 Prep Batch:

Prep Date: 28-DEC-20 **Prep Method: Prep Aliquot:** SW846 3540C

EPA Method 1613B

10 g

PQL CAS No. Qual Units **EDL Parmname** Result

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		147	200	pg/g	73.5	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		148	200	pg/g	74.2	(26%-138%)
37Cl-2,3,7,8-TCDD		16.5	20.0	pg/g	82.5	(35%-197%)

Comments:

Value is estimated J

Estimated Maximum Possible Concentration K

Analyte was analyzed for, but not detected above the specified detection limit.

As Received

HRP750

1

Prep Basis:

Instrument:

Dilution:

Page 1

January 11, 2021

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 Client: APEX001 **Project:** APEX00320 SDG Number: 12028284 SOIL Lab Sample ID: Matrix:

Method:

Analyst:

QC for batch 45694 **Client Sample:**

Client ID: LCS for batch 45694 **Batch ID:** 45696

01/03/2021 19:02 **Run Date:**

Data File: A03JAN21A_2-1 45694 Prep Batch:

Prep Date:

Prep Method: 10 g **Prep Aliquot:** 28-DEC-20

SW846 3540C

MJC

EPA Method 1613B

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		17.3	pg/g	0.294	1.00
40321-76-4	1,2,3,7,8-PeCDD		99.2	pg/g	0.468	5.00
39227-28-6	1,2,3,4,7,8-HxCDD		97.1	pg/g	0.740	5.00
57653-85-7	1,2,3,6,7,8-HxCDD		97.0	pg/g	0.712	5.00
19408-74-3	1,2,3,7,8,9-HxCDD		97.9	pg/g	0.736	5.00
35822-46-9	1,2,3,4,6,7,8-HpCDD		91.2	pg/g	1.46	5.00
3268-87-9	1,2,3,4,6,7,8,9-OCDD		182	pg/g	1.28	10.0
51207-31-9	2,3,7,8-TCDF		17.6	pg/g	0.332	1.00
57117-41-6	1,2,3,7,8-PeCDF		91.3	pg/g	0.466	5.00
57117-31-4	2,3,4,7,8-PeCDF		95.3	pg/g	0.428	5.00
70648-26-9	1,2,3,4,7,8-HxCDF		92.3	pg/g	0.784	5.00
57117-44-9	1,2,3,6,7,8-HxCDF		93.4	pg/g	0.720	5.00
60851-34-5	2,3,4,6,7,8-HxCDF		88.9	pg/g	0.794	5.00
72918-21-9	1,2,3,7,8,9-HxCDF		94.1	pg/g	1.17	5.00
67562-39-4	1,2,3,4,6,7,8-HpCDF		88.8	pg/g	1.12	5.00
55673-89-7	1,2,3,4,7,8,9-HpCDF		90.4	pg/g	1.67	5.00
39001-02-0	1,2,3,4,6,7,8,9-OCDF		185	pg/g	1.56	10.0

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		154	200	pg/g	77.2	(20%-175%)
13C-1,2,3,7,8-PeCDD		165	200	pg/g	82.3	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		133	200	pg/g	66.3	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		147	200	pg/g	73.5	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		132	200	pg/g	66.0	(22%-166%)
13C-OCDD		227	400	pg/g	56.9	(13%-199%)
13C-2,3,7,8-TCDF		157	200	pg/g	78.3	(22%-152%)
13C-1,2,3,7,8-PeCDF		169	200	pg/g	84.6	(21%-192%)
13C-2,3,4,7,8-PeCDF		171	200	pg/g	85.5	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		140	200	pg/g	69.8	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		147	200	pg/g	73.3	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		145	200	pg/g	72.6	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		144	200	pg/g	72.0	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		132	200	pg/g	65.8	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		132	200	pg/g	66.2	(20%-186%)
37Cl-2,3,7,8-TCDD		15.9	20.0	pg/g	79.5	(31%-191%)

Comments:

Analyte was analyzed for, but not detected above the specified detection limit.

As Received

HRP750

1

Prep Basis:

Instrument:

0.950

1.64

1.19

pg/g

pg/g

pg/g

5.00

5.00

10.0

Dilution:

Page 1

January 11, 2021

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A0L0698 Client: APEX001 **Project:** APEX00320 SDG Number: 12028285 SOIL Lab Sample ID: Matrix:

QC for batch 45694 **Client Sample:**

Client ID: LCSD for batch 45694 **Batch ID:** 45696

28-DEC-20

1,2,3,4,6,7,8-HpCDF

1,2,3,4,7,8,9-HpCDF

1,2,3,4,6,7,8,9-OCDF

01/03/2021 19:50 **Run Date:** Data File:

A03JAN21A_2-2 45694 Prep Batch:

Prep Date:

67562-39-4

55673-89-7

39001-02-0

Method: EPA Method 1613B **Analyst:** MJC

Prep Method:

SW846 3540C

Prep Aliquot: 10 g

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		17.6	pg/g	0.342	1.00
40321-76-4	1,2,3,7,8-PeCDD		101	pg/g	0.368	5.00
39227-28-6	1,2,3,4,7,8-HxCDD		102	pg/g	0.472	5.00
57653-85-7	1,2,3,6,7,8-HxCDD		94.5	pg/g	0.480	5.00
19408-74-3	1,2,3,7,8,9-HxCDD		99.9	pg/g	0.482	5.00
35822-46-9	1,2,3,4,6,7,8-HpCDD		92.8	pg/g	1.41	5.00
3268-87-9	1,2,3,4,6,7,8,9-OCDD		191	pg/g	1.23	10.0
51207-31-9	2,3,7,8-TCDF		18.7	pg/g	0.326	1.00
57117-41-6	1,2,3,7,8-PeCDF		93.7	pg/g	0.566	5.00
57117-31-4	2,3,4,7,8-PeCDF		99.9	pg/g	0.550	5.00
70648-26-9	1,2,3,4,7,8-HxCDF		92.9	pg/g	0.666	5.00
57117-44-9	1,2,3,6,7,8-HxCDF		95.8	pg/g	0.664	5.00
60851-34-5	2,3,4,6,7,8-HxCDF		95.1	pg/g	0.686	5.00
72918-21-9	1,2,3,7,8,9-HxCDF		94.0	pg/g	1.07	5.00

92.9

91.0

197

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
3C-2,3,7,8-TCDD		151	200	pg/g	75.7	(20%-175%)
3C-1,2,3,7,8-PeCDD		159	200	pg/g	79.5	(21%-227%)
3C-1,2,3,4,7,8-HxCDD		130	200	pg/g	65.2	(21%-193%)
3C-1,2,3,6,7,8-HxCDD		146	200	pg/g	73.0	(25%-163%)
3C-1,2,3,4,6,7,8-HpCDD		138	200	pg/g	69.1	(22%-166%)
3C-OCDD		257	400	pg/g	64.2	(13%-199%)
3C-2,3,7,8-TCDF		151	200	pg/g	75.3	(22%-152%)
3C-1,2,3,7,8-PeCDF		166	200	pg/g	82.9	(21%-192%)
3C-2,3,4,7,8-PeCDF		164	200	pg/g	82.2	(13%-328%)
3C-1,2,3,4,7,8-HxCDF		141	200	pg/g	70.5	(19%-202%)
3C-1,2,3,6,7,8-HxCDF		144	200	pg/g	72.1	(21%-159%)
3C-2,3,4,6,7,8-HxCDF		142	200	pg/g	71.1	(22%-176%)
3C-1,2,3,7,8,9-HxCDF		143	200	pg/g	71.7	(17%-205%)
3C-1,2,3,4,6,7,8-HpCDF		140	200	pg/g	70.1	(21%-158%)
3C-1,2,3,4,7,8,9-HpCDF		129	200	pg/g	64.6	(20%-186%)
7Cl-2,3,7,8-TCDD		15.9	20.0	pg/g	79.6	(31%-191%)

Comments:

Analyte was analyzed for, but not detected above the specified detection limit.



Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-46895-1 Client Project/Site: A0L0698

For:

Apex Laboratories LLC 6700 SW Sandburg St. Tigard, Oregon 97223

Attn: Philip Nerenberg

Authorized for release by: 1/6/2021 5:36:32 PM

Lori Thompson, Project Manager I (714)895-5494

Lori.Thompson@eurofinset.com

.....LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

2

4

5

7

8

10

10

13

Client: Apex Laboratories LLC Project/Site: A0L0698

Laboratory Job ID: 570-46895-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	11
QC Sample Results	12
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	24
Correspondence	25

11

13

4 5

16

Definitions/Glossary

Client: Apex Laboratories LLC Job ID: 570-46895-1

Project/Site: A0L0698

Qualifiers

GC/MS Semi VOA

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits.

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossarv

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit

MPN MQL NC

ML

Method Quantitation Limit Not Calculated

ND

Not Detected at the reporting limit (or MDL or EDL if shown)

Negative / Absent NEG POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Minimum Level (Dioxin)

Most Probable Number

Reporting Limit or Requested Limit (Radiochemistry) RL

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) **TEQ** Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Page 3 of 25

Case Narrative

Client: Apex Laboratories LLC Job ID: 570-46895-1

Project/Site: A0L0698

Job ID: 570-46895-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-46895-1

Comments

No additional comments.

Receipt

The samples were received on 12/22/2020 12:10 PM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.9° C.

GC/MS Semi VOA

Method Organotins SIM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-118921 and analytical batch 570-119430 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8151A: The continuing calibration verification (CCV) associated with batch 570-120336 recovered above the upper control limit for 2,4-D, 2,4-DB, MCPA, MCPP and Dalapon. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8151A: The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 570-118615 and analytical batch 570-119335 exceeded control limits for the following analyte: Dinoseb, Note that this analyte is a known poor performer when analyzed using this method.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

4

5

0

8

10

1 0

13

15

16

Detection Summary

Client: Apex Laboratories LLC Job ID: 570-46895-1

Project/Site: A0L0698

Client Sample ID: CB-1						Lab Sample ID: 570-46895			
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type	
Tributyltin	23		8.9	4.4	ug/Kg	<u> </u>	Organotins SIM	Total/NA	
Dibutyltin	29		8.9	2.2	ug/Kg	1 ⊰	Organotins SIM	Total/NA	
Client Sample ID: CB-2						Lab S	ample ID: 57	0-46895-2	
 Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type	
Dibutyltin	9.7		4.1	1.0	ug/Kg	<u> </u>	Organotins SIM	Total/NA	
2,4,5-TP (Silvex)	15		15	5.3	ug/Kg	1 ∃	⊱ 8151A	Total/NA	
Client Sample ID: CB-3						Lab S	ample ID: 57	0-46895-	
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type	
2,4,5-TP (Silvex)	9.4	J p	17	6.3	ug/Kg	1 3	≅ 8151A	Total/NA	
Client Sample ID: CB-4						Lab S	ample ID: 57	0-46895-4	
 Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type	
2,4,5-TP (Silvex)	24	J	34	12	ug/Kg	1 ∃	₹ 8151A	Total/NA	
Client Sample ID: CB-4_DL	JP					Lab S	ample ID: 57	0-46895-	
 Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac I) Method	Prep Type	
2,4,5-TP (Silvex)	25	J	36	13	ug/Kg	1 3	≅ 8151A	Total/NA	
Client Sample ID: CB-5						Lab S	ample ID: 57	0-46895-0	
No Detections.									
Client Sample ID: CB-6						Lab S	ample ID: 57	0-46895-	
No Detections.									
Client Sample ID: CB-7						Lab S	ample ID: 57	0-46895-	

No Detections.

This Detection Summary does not include radiochemical test results.

1/6/2021

Client Sample Results

Client: Apex Laboratories LLC Job ID: 570-46895-1

Project/Site: A0L0698

Method: Organotins SIM - Organotins (GC/MS SIM)

ND

Client Sample ID: CB-1	Lab Sample ID: 570-46895-1
Date Collected: 12/17/20 10:10	Matrix: Solid

Date Collected: 12/17/20 10:10 Date Received: 12/22/20 12:10

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		8.9	2.2	ug/Kg		12/28/20 11:35	12/30/20 17:53	1
Tributyltin	23		8.9	4.4	ug/Kg	₽	12/28/20 11:35	12/30/20 17:53	1
Dibutyltin	29		8.9	2.2	ug/Kg	≎	12/28/20 11:35	12/30/20 17:53	1
Monobutyltin	ND		8.9	4.1	ug/Kg	₽	12/28/20 11:35	12/30/20 17:53	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tripentyltin	47	27 - 135	12/28/20 11:35	12/30/20 17:53	1

Client Sample ID: CB-2

Date Collected: 12/17/20 08:50

Date Received: 12/22/20 12:10									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		4.1	1.0	ug/Kg		12/28/20 11:35	12/30/20 18:11	1
Tributyltin	ND		4.1	2.0	ug/Kg	₩	12/28/20 11:35	12/30/20 18:11	1
Dibutyltin	9.7		4.1	1.0	ug/Kg	₩	12/28/20 11:35	12/30/20 18:11	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tripentyltin	76	27 - 135	12/28/20 11:35	12/30/20 18:11	1

4.1

1.9 ug/Kg

Client Sample ID: CB-3

Monobutyltin

Date Collected: 12/17/20 09:15

Date Received: 12/22/20 12:10									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		5.0	1.2	ug/Kg	≎	12/28/20 11:35	12/30/20 18:29	1
Tributyltin	ND		5.0	2.5	ug/Kg	₩	12/28/20 11:35	12/30/20 18:29	1
Dibutyltin	ND		5.0	1.2	ug/Kg	₩	12/28/20 11:35	12/30/20 18:29	1
Monobutyltin	ND		5.0	2.3	ug/Kg	₩	12/28/20 11:35	12/30/20 18:29	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tripentyltin	34	27 - 135	12/28/20 11:35	12/30/20 18:29	1

Client Sample ID: CB-4

Date Collected: 12/17/20 11:00

Date Received: 12/22/20 12:10

Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND	10	2.5	ug/Kg	*	12/28/20 11:35	12/30/20 18:46	1
Tributyltin	ND	10	5.0	ug/Kg	₩	12/28/20 11:35	12/30/20 18:46	1
Dibutyltin	ND	10	2.5	ug/Kg	₩	12/28/20 11:35	12/30/20 18:46	1
Monobutyltin	ND	10	4.7	ug/Kg	₩	12/28/20 11:35	12/30/20 18:46	1
0	0/5						A	D'' 5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
Tripentyltin	37		27 - 135	12/28/20 11:35	12/30/20 18:46	1

Client Sample ID: CB-4_DUP

Date Collected: 12/17/20 11:05

Date Received: 12/22/20 12:10								
Analyte	Result Qua	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND	11	2.8	ug/Kg	₩	12/28/20 11:35	12/30/20 19:03	1
Tributyltin	ND	11	5.5	ug/Kg	₽	12/28/20 11:35	12/30/20 19:03	1
Dibutyltin	ND	11	2.7	ug/Kg	☼	12/28/20 11:35	12/30/20 19:03	1

Eurofins Calscience LLC

Page 6 of 25 1/6/2021

Lab Sample ID: 570-46895-2

Lab Sample ID: 570-46895-3

Lab Sample ID: 570-46895-4

Lab Sample ID: 570-46895-5

12/28/20 11:35 12/30/20 18:11

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

Client Sample Results

Client: Apex Laboratories LLC Job ID: 570-46895-1

Project/Site: A0L0698

Client Sample ID: CB-4_DUP Date Collected: 12/17/20 11:05

Method: Organotins SIM - Organotins (GC/MS SIM) (Continued)

Lab	Sampl	e ID:	570-4	6895-

Lab Sample ID: 570-46895-7

Lab Sample ID: 570-46895-8

Matrix: Solid

Matrix: Solid

Matrix: Solid

Qualifier	RL	MADI		_			
Qualifier	KL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	11	5.1	ug/Kg	<u></u>	12/28/20 11:35	12/30/20 19:03	1
)							

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Tripentyltin 39 27 - 135 12/28/20 11:35 12/30/20 19:03

Client Sample ID: CB-5 Lab Sample ID: 570-46895-6 **Matrix: Solid**

Date Collected: 12/17/20 11:35

Date Received: 12/22/20 12:10									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		9.0	2.2	ug/Kg	*	12/28/20 11:35	12/30/20 19:20	1
Tributyltin	ND		9.0	4.5	ug/Kg	₽	12/28/20 11:35	12/30/20 19:20	1
Dibutyltin	ND		9.0	2.2	ug/Kg	₽	12/28/20 11:35	12/30/20 19:20	1
Monobutyltin	ND		9.0	4.2	ug/Kg	₩	12/28/20 11:35	12/30/20 19:20	1

Surrogate Dil Fac %Recovery Qualifier Limits Prepared Analyzed 12/28/20 11:35 12/30/20 19:20 Tripentyltin 27 - 135 68

Client Sample ID: CB-6 Date Collected: 12/17/20 13:10

Date Received: 12/22/20 12:10

Date Neceived. 12/22/20	12.10							
Analyte	Result Qualifier	RL	MDL (Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND ND	8.7	2.2 ι	ug/Kg	#	12/28/20 11:35	12/30/20 19:37	1
Tributyltin	ND	8.7	4.3 ι	ug/Kg	☼	12/28/20 11:35	12/30/20 19:37	1
Dibutyltin	ND	8.7	2.1 ι	ug/Kg	₩	12/28/20 11:35	12/30/20 19:37	1
Monobutyltin	ND	8.7	4.0 ι	ug/Kg	₩	12/28/20 11:35	12/30/20 19:37	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac <u>12/28/20 11:35</u> <u>12/30/20 19:37</u> Tripentyltin 27 - 135 49

Client Sample ID: CB-7

Date Collected: 12/17/20 12:30

Date Received: 12/22/20 12:10	0								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		7.4	1.8	ug/Kg	₩	12/28/20 11:35	01/04/21 14:09	1
Tributyltin	ND		7.4	3.7	ug/Kg	₽	12/28/20 11:35	01/04/21 14:09	1
Dibutyltin	ND		7.4	1.8	ug/Kg	₽	12/28/20 11:35	01/04/21 14:09	1
Monobutyltin	ND		7.4	3.4	ug/Kg	₽	12/28/20 11:35	01/04/21 14:09	1

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Tripentyltin 70 27 - 135 12/28/20 11:35 01/04/21 14:09

Client Sample Results

Client: Apex Laboratories LLC Job ID: 570-46895-1 Project/Site: A0L0698

Method: 8151A - Herbicides (GC)

Client Sample ID: CB-1	Lab Sample ID: 570-46895-1
Date Collected: 12/17/20 10:10	Matrix: Solid

Date Received: 12/22/20 12:10

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND ND	31	12	ug/Kg	<u></u>	12/23/20 18:53	01/05/21 17:38	1
2,4,5-TP (Silvex)	ND	31	11	ug/Kg	₽	12/23/20 18:53	01/05/21 17:38	1
2,4-D	ND	310	150	ug/Kg	☼	12/23/20 18:53	01/05/21 17:38	1
2,4-DB	ND	310	150	ug/Kg	₩	12/23/20 18:53	01/05/21 17:38	1
Dalapon	ND	780	230	ug/Kg	☼	12/23/20 18:53	01/05/21 17:38	1
Dicamba	ND	31	15	ug/Kg	☼	12/23/20 18:53	01/05/21 17:38	1
Dichlorprop	ND	310	150	ug/Kg	₩	12/23/20 18:53	01/05/21 17:38	1
Dinoseb	ND	310	60	ug/Kg	₩	12/23/20 18:53	01/05/21 17:38	1
MCPA	ND	62000	33000	ug/Kg	☼	12/23/20 18:53	01/05/21 17:38	1
MCPP	ND	31000	21000	ug/Kg	₽	12/23/20 18:53	01/05/21 17:38	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	74	21 - 161	12/23/20 18:53 0	01/05/21 17:38	1

Client Sample ID: CB-2 Lab Sample ID: 570-46895-2 **Matrix: Solid** Date Collected: 12/17/20 08:50

2,4-Dichlorophenylacetic acid

Posult (Qualifier	DI	MDI	Unit	n	Propared	Analyzod	Dil Fac
								Diriac
ND		15	5.4	ug/Kg	₩	12/23/20 18:53	01/05/21 18:01	1
15		15	5.3	ug/Kg	≎	12/23/20 18:53	01/05/21 18:01	1
ND		150	71	ug/Kg	₽	12/23/20 18:53	01/05/21 18:01	1
ND		150	68	ug/Kg	₽	12/23/20 18:53	01/05/21 18:01	1
ND		370	110	ug/Kg	₽	12/23/20 18:53	01/05/21 18:01	1
ND		15	6.9	ug/Kg	₽	12/23/20 18:53	01/05/21 18:01	1
ND		150	72	ug/Kg	≎	12/23/20 18:53	01/05/21 18:01	1
ND		150	28	ug/Kg	₽	12/23/20 18:53	01/05/21 18:01	1
ND		29000	15000	ug/Kg	₽	12/23/20 18:53	01/05/21 18:01	1
ND		15000	9700	ug/Kg	₽	12/23/20 18:53	01/05/21 18:01	1
	ND 15 ND	15 ND ND ND ND ND ND ND	ND 15 15 15 ND 150 ND 150 ND 370 ND 15 ND 150 ND 150 ND 150 ND 150 ND 29000	ND 15 5.4 15 15 5.3 ND 150 71 ND 150 68 ND 370 110 ND 15 6.9 ND 150 72 ND 150 28 ND 29000 15000	ND 15 5.4 ug/Kg 15 5.3 ug/Kg ND 150 71 ug/Kg ND 150 68 ug/Kg ND 370 110 ug/Kg ND 15 6.9 ug/Kg ND 150 72 ug/Kg ND 150 28 ug/Kg ND 29000 15000 ug/Kg	ND 15 5.4 ug/Kg ☆ 15 15 5.3 ug/Kg ☆ ND 150 71 ug/Kg ☆ ND 150 68 ug/Kg ☆ ND 370 110 ug/Kg ☆ ND 15 6.9 ug/Kg ☆ ND 150 72 ug/Kg ☆ ND 150 28 ug/Kg ☆ ND 29000 15000 ug/Kg ☆	ND 15 5.4 ug/Kg 12/23/20 18:53 15 15 5.3 ug/Kg 12/23/20 18:53 ND 150 71 ug/Kg 12/23/20 18:53 ND 150 68 ug/Kg 12/23/20 18:53 ND 370 110 ug/Kg 12/23/20 18:53 ND 15 6.9 ug/Kg 12/23/20 18:53 ND 150 72 ug/Kg 12/23/20 18:53 ND 150 28 ug/Kg 12/23/20 18:53 ND 29000 15000 ug/Kg 12/23/20 18:53	ND 15 5.4 ug/Kg * 12/23/20 18:53 01/05/21 18:01 15 15 5.3 ug/Kg * 12/23/20 18:53 01/05/21 18:01 ND 150 71 ug/Kg * 12/23/20 18:53 01/05/21 18:01 ND 150 68 ug/Kg * 12/23/20 18:53 01/05/21 18:01 ND 370 110 ug/Kg * 12/23/20 18:53 01/05/21 18:01 ND 15 6.9 ug/Kg * 12/23/20 18:53 01/05/21 18:01 ND 150 72 ug/Kg * 12/23/20 18:53 01/05/21 18:01 ND 150 28 ug/Kg * 12/23/20 18:53 01/05/21 18:01 ND 29000 15000 ug/Kg * 12/23/20 18:53 01/05/21 18:01

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	77		21 - 161	12/23/20 18:53	01/05/21 18:01	1

Client Sample ID: CB-3 Lab Sample ID: 570-46895-3 Date Collected: 12/17/20 09:15 **Matrix: Solid**

Date Received: 12/22/2	0 12:10							
Analyte	Result Q	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND ND	17	6.4	ug/Kg	*	12/23/20 18:53	01/05/21 18:24	1
2,4,5-TP (Silvex)	9.4 J	p 17	6.3	ug/Kg	₩	12/23/20 18:53	01/05/21 18:24	1
2,4-D	ND	170	84	ug/Kg	₩	12/23/20 18:53	01/05/21 18:24	1
2,4-DB	ND	170	81	ug/Kg	≎	12/23/20 18:53	01/05/21 18:24	1
Dalapon	ND	430	130	ug/Kg	₩	12/23/20 18:53	01/05/21 18:24	1
Dicamba	ND	17	8.2	ug/Kg	₩	12/23/20 18:53	01/05/21 18:24	1
Dichlorprop	ND	170	85	ug/Kg	₩	12/23/20 18:53	01/05/21 18:24	1
Dinoseb	ND	170	33	ug/Kg	₩	12/23/20 18:53	01/05/21 18:24	1
MCPA	ND	35000	18000	ug/Kg	₩	12/23/20 18:53	01/05/21 18:24	1
MCPP	ND	17000	11000	ug/Kg	ಘ	12/23/20 18:53	01/05/21 18:24	1
Surrogate	%Recovery Q	ualifier Limits				Prepared	Analyzed	Dil Fac

Eurofins Calscience LLC

<u>12/23/20 18:53</u> <u>01/05/21 18:24</u>

Page 8 of 25

21 - 161

60

Client Sample Results

Client: Apex Laboratories LLC Job ID: 570-46895-1 Project/Site: A0L0698

Method: 8151A - Herbicides (GC)

Client Sample ID: CB-4 Date Collected: 12/17/20 11: Date Received: 12/22/20 12:							Lab San	nple ID: 570-4 Matrix	6895-4 :: Solid
Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND ND		34	13	ug/Kg		12/23/20 18:53	01/05/21 18:47	1
2,4,5-TP (Silvex)	24 J		34	12	ug/Kg	₽	12/23/20 18:53	01/05/21 18:47	1
2,4-D	ND		340	170	ug/Kg	₽	12/23/20 18:53	01/05/21 18:47	1
2,4-DB	ND		340	160	ug/Kg	₩	12/23/20 18:53	01/05/21 18:47	1
Dalapon	ND		860	250	ug/Kg	₩	12/23/20 18:53	01/05/21 18:47	1
Dicamba	ND		34	16	ug/Kg	₩	12/23/20 18:53	01/05/21 18:47	1
Dichlorprop	ND		340	170	ug/Kg	₽	12/23/20 18:53	01/05/21 18:47	1
Dinoseb	ND		340	66	ug/Kg	₩	12/23/20 18:53	01/05/21 18:47	1
MCPA	ND		69000	36000	ug/Kg	₩	12/23/20 18:53	01/05/21 18:47	1
MCPP	ND		34000	23000	ug/Kg	≎	12/23/20 18:53	01/05/21 18:47	1
Surrogate	%Recovery Q	ualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	66		21 - 161				12/23/20 18:53	01/05/21 18:47	1

Client Sample ID: CB-4_DUP Lab Sample ID: 570-46895-5 Date Collected: 12/17/20 11:05 **Matrix: Solid** Date Received: 12/22/20 12:10

Date Received. 12/22/20 12	10							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND ND	36	13	ug/Kg	<u></u>	12/23/20 18:53	01/05/21 19:10	1
2,4,5-TP (Silvex)	25 J	36	13	ug/Kg	₽	12/23/20 18:53	01/05/21 19:10	1
2,4-D	ND	360	180	ug/Kg	₩	12/23/20 18:53	01/05/21 19:10	1
2,4-DB	ND	360	170	ug/Kg	₽	12/23/20 18:53	01/05/21 19:10	1
Dalapon	ND	910	260	ug/Kg	₩	12/23/20 18:53	01/05/21 19:10	1
Dicamba	ND	36	17	ug/Kg	₩	12/23/20 18:53	01/05/21 19:10	1
Dichlorprop	ND	360	180	ug/Kg	₩	12/23/20 18:53	01/05/21 19:10	1
Dinoseb	ND	360	70	ug/Kg	₩	12/23/20 18:53	01/05/21 19:10	1
MCPA	ND	73000	38000	ug/Kg	₩	12/23/20 18:53	01/05/21 19:10	1
MCPP	ND	36000	24000	ug/Kg	₩	12/23/20 18:53	01/05/21 19:10	1

12/23/20 18:53 01/05/21 19:10 2,4-Dichlorophenylacetic acid 21 - 161 68 **Client Sample ID: CB-5** Lab Sample ID: 570-46895-6

Limits

%Recovery Qualifier

Surrogate

Date Collected: 12/17/20 11 Date Received: 12/22/20 12								Matrix	: Solid
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		31	12	ug/Kg	<u></u>	12/23/20 18:53	01/05/21 19:33	1
2,4,5-TP (Silvex)	ND		31	11	ug/Kg	₩	12/23/20 18:53	01/05/21 19:33	1
2,4-D	ND		310	150	ug/Kg	₩	12/23/20 18:53	01/05/21 19:33	1
2,4-DB	ND		310	150	ug/Kg	₩	12/23/20 18:53	01/05/21 19:33	1
Dalapon	ND		790	230	ug/Kg	₩	12/23/20 18:53	01/05/21 19:33	1
Dicamba	ND		31	15	ug/Kg	₩	12/23/20 18:53	01/05/21 19:33	1
Dichlorprop	ND		310	150	ug/Kg	₩	12/23/20 18:53	01/05/21 19:33	1
Dinoseb	ND		310	60	ug/Kg	₩	12/23/20 18:53	01/05/21 19:33	1
MCPA	ND		63000	33000	ug/Kg	₩	12/23/20 18:53	01/05/21 19:33	1
MCPP	ND		31000	21000	ug/Kg	☼	12/23/20 18:53	01/05/21 19:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	53		21 - 161				12/23/20 18:53	01/05/21 19:33	1

Eurofins Calscience LLC

Page 9 of 25

Dil Fac

Analyzed

Prepared

Client Sample Results

Client: Apex Laboratories LLC Job ID: 570-46895-1

Project/Site: A0L0698

Method: 8151A - Herbicides (GC)

Client Sample ID: CB-6	Lab Sample ID: 570-46895-7
Date Collected: 12/17/20 13:10	Matrix: Solid
Data Data 1 and 40/00/00 40 40	

Date Received: 12/22/20	12:10							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND ND	31	12	ug/Kg	<u></u>	12/23/20 18:53	01/05/21 19:56	1
2,4,5-TP (Silvex)	ND	31	11	ug/Kg	☼	12/23/20 18:53	01/05/21 19:56	1
2,4-D	ND	310	150	ug/Kg	₩	12/23/20 18:53	01/05/21 19:56	1
2,4-DB	ND	310	150	ug/Kg	₩	12/23/20 18:53	01/05/21 19:56	1
Dalapon	ND	780	230	ug/Kg	☼	12/23/20 18:53	01/05/21 19:56	1
Dicamba	ND	31	15	ug/Kg	₩	12/23/20 18:53	01/05/21 19:56	1
Dichlorprop	ND	310	150	ug/Kg	₩	12/23/20 18:53	01/05/21 19:56	1
Dinoseb	ND	310	60	ug/Kg	₩	12/23/20 18:53	01/05/21 19:56	1
MCPA	ND	62000	33000	ug/Kg	₩	12/23/20 18:53	01/05/21 19:56	1
MCPP	ND	31000	21000	ug/Kg	₩	12/23/20 18:53	01/05/21 19:56	1
Surrogate	%Recovery Qualifier	Limits				Prepared	Analyzed	Dil Fac

Junioguto	70110001019	Quannon		Troparou /maryzou	2
2,4-Dichlorophenylacetic acid	80		21 - 161	12/23/20 18:53 01/05/21 19:56	1

Client Sample ID: CB-7 Lab Sample ID: 570-46895-8 Date Collected: 12/17/20 12:30 **Matrix: Solid**

Date Received: 12/22/20	12:10							
Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND ND	25	9.2	ug/Kg	<u></u>	12/23/20 18:53	01/05/21 20:18	1
2,4,5-TP (Silvex)	ND	25	9.1	ug/Kg	₽	12/23/20 18:53	01/05/21 20:18	1
2,4-D	ND	250	120	ug/Kg	₽	12/23/20 18:53	01/05/21 20:18	1
2,4-DB	ND	250	120	ug/Kg	₽	12/23/20 18:53	01/05/21 20:18	1
Dalapon	ND	620	180	ug/Kg	₽	12/23/20 18:53	01/05/21 20:18	1
Dicamba	ND	25	12	ug/Kg	₽	12/23/20 18:53	01/05/21 20:18	1
Dichlorprop	ND	250	120	ug/Kg	₽	12/23/20 18:53	01/05/21 20:18	1
Dinoseb	ND	250	48	ug/Kg	₩	12/23/20 18:53	01/05/21 20:18	1
MCPA	ND	50000	26000	ug/Kg	₽	12/23/20 18:53	01/05/21 20:18	1
MCPP	ND	25000	16000	ug/Kg	₽	12/23/20 18:53	01/05/21 20:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
2,4-Dichlorophenylacetic acid	108		21 - 161	12/23/20 18:53 01/05/21 20:18	1

Surrogate Summary

Client: Apex Laboratories LLC Job ID: 570-46895-1

Project/Site: A0L0698

Method: Organotins SIM - Organotins (GC/MS SIM)

Matrix: Solid Prep Type: Total/NA

		TPTT	
Lab Sample ID	Client Sample ID	(27-135)	
570-46895-1	CB-1	47	
570-46895-2	CB-2	76	
570-46895-3	CB-3	34	
570-46895-4	CB-4	37	
570-46895-5	CB-4_DUP	39	
570-46895-6	CB-5	68	
570-46895-7	CB-6	49	
570-46895-8	CB-7	70	
660-106910-A-1-A MS	Matrix Spike	29	
660-106910-A-1-B MSD	Matrix Spike Duplicate	30	
LCS 570-118921/2-A	Lab Control Sample	49	
LCSD 570-118921/3-A	Lab Control Sample Dup	46	
MB 570-118921/1-A	Method Blank	56	
Surrogate Legend			

Method: 8151A - Herbicides (GC)

Prep Type: Total/NA **Matrix: Solid**

			Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1	
Lab Sample ID	Client Sample ID	(21-161)	
570-46680-D-7-B MS	Matrix Spike	22	
570-46680-D-7-C MSD	Matrix Spike Duplicate	23	
570-46895-1	CB-1	74	
570-46895-2	CB-2	77	
570-46895-3	CB-3	60	
570-46895-4	CB-4	66	
570-46895-5	CB-4_DUP	68	
570-46895-6	CB-5	53	
570-46895-7	CB-6	80	
570-46895-8	CB-7	108	
LCS 570-118615/2-A	Lab Control Sample	62	
LCSD 570-118615/3-A	Lab Control Sample Dup	63	
MB 570-118615/1-A	Method Blank	36	

DCPAA = 2,4-Dichlorophenylacetic acid

Page 11 of 25

Client: Apex Laboratories LLC Job ID: 570-46895-1 Project/Site: A0L0698

Method: Organotins SIM - Organotins (GC/MS SIM)

Lab Sample ID: MB 570-118921/1-A

Matrix: Solid

Analysis Batch: 119430

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 118921

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		3.0	0.74	ug/Kg		12/28/20 11:35	12/30/20 12:39	1
Tributyltin	ND		3.0	1.5	ug/Kg		12/28/20 11:35	12/30/20 12:39	1
Dibutyltin	ND		3.0	0.73	ug/Kg		12/28/20 11:35	12/30/20 12:39	1
Monobutyltin	ND		3.0	1.4	ug/Kg		12/28/20 11:35	12/30/20 12:39	1

MB MB

Surrogate %Recovery Qualifier Limits Dil Fac Prepared Analyzed 27 - 135 12/28/20 11:35 12/30/20 12:39 Tripentyltin 56

Lab Sample ID: LCS 570-118921/2-A

Matrix: Solid

Analysis Batch: 119430

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 118921

Spike LCS LCS %Rec. Added %Rec Limits Analyte Result Qualifier Unit D Tetrabutyltin 100 73.07 ug/Kg 73 40 - 142 Tributyltin 100 55.20 ug/Kg 55 33 - 147

LCS LCS

Surrogate %Recovery Qualifier Limits 27 - 135 Tripentyltin 49

Lab Sample ID: LCSD 570-118921/3-A

Matrix: Solid

Analysis Batch: 119430

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118921

		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Tetrabutyltin		100	64.19		ug/Kg		64	40 - 142	13	20
Tributyltin		100	49.50		ug/Kg		49	33 - 147	11	20
	Tetrabutyltin	Tetrabutyltin	Analyte Added Tetrabutyltin 100	Analyte Added Result Tetrabutyltin 100 64.19	Tetrabutyltin 100 64.19	AnalyteAddedResultQualifierUnitTetrabutyltin10064.19ug/Kg	AnalyteAddedResultQualifierUnitDTetrabutyltin10064.19ug/Kg	AnalyteAddedResultQualifierUnitD%RecTetrabutyltin10064.19ug/Kg64	AnalyteAddedResultQualifierUnitD%RecLimitsTetrabutyltin10064.19ug/Kg6440 - 142	AnalyteAddedResultQualifierUnitD%RecLimitsRPDTetrabutyltin10064.19ug/Kg6440 - 14213

MS MS

LCSD LCSD

Surrogate %Recovery Qualifier Limits Tripentyltin 27 - 135

Lab Sample ID: 660-106910-A-1-A MS **Matrix: Solid**

Analysis Batch: 119430

Client Sample ID: Matrix Spike

Prep Type: Total/NA **Prep Batch: 118921**

%Rec.

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Tetrabutyltin ND F1 99.5 28.15 F1 ug/Kg 28 33 - 129 Tributyltin 26 1.5 JF1 99.5 26.01 F1 ug/Kg 34 - 142

Spike

MS MS

Sample Sample

Surrogate %Recovery Qualifier Limits Tripentyltin 27 - 135 29

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 119430

Lab Sample ID: 660-106910-A-1-B MSD

Prep Type: Total/NA **Prep Batch: 118921** %Rec. **RPD**

Sample Sample Spike MSD MSD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit ND F1 Tetrabutyltin 99.0 36.85 ug/Kg 37 33 - 129 27

Eurofins Calscience LLC

Page 12 of 25

Client: Apex Laboratories LLC Job ID: 570-46895-1

Project/Site: A0L0698

Method: Organotins SIM - Organotins (GC/MS SIM) (Continued)

Lab Sample ID: 660-106910-A-1-B MSD **Client Sample ID: Matrix Spike Duplicate Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 119430 Prep Batch: 118921** MSD MSD Sample Sample **RPD** Spike %Rec. Analyte **Result Qualifier** Added Result Qualifier Unit %Rec Limits RPD Limit Tributyltin 1.5 JF1 99.0 28.62 F1 ug/Kg 29 34 - 142 10 50

MSD MSD Surrogate %Recovery Qualifier Limits Tripentyltin 30 27 - 135

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-118615/1-A **Client Sample ID: Method Blank Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 119335 Prep Batch: 118615

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		9.9	3.7	ug/Kg		12/23/20 18:52	12/29/20 22:02	1
2,4,5-TP (Silvex)	ND		9.9	3.6	ug/Kg		12/23/20 18:52	12/29/20 22:02	1
2,4-D	ND		99	48	ug/Kg		12/23/20 18:52	12/29/20 22:02	1
2,4-DB	ND		99	46	ug/Kg		12/23/20 18:52	12/29/20 22:02	1
Dalapon	ND		250	72	ug/Kg		12/23/20 18:52	12/29/20 22:02	1
Dicamba	ND		9.9	4.7	ug/Kg		12/23/20 18:52	12/29/20 22:02	1
Dichlorprop	ND		99	49	ug/Kg		12/23/20 18:52	12/29/20 22:02	1
Dinoseb	ND		99	19	ug/Kg		12/23/20 18:52	12/29/20 22:02	1
MCPA	ND		20000	10000	ug/Kg		12/23/20 18:52	12/29/20 22:02	1
MCPP	ND		9900	6500	ug/Kg		12/23/20 18:52	12/29/20 22:02	1

MB MB %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 2,4-Dichlorophenylacetic acid 36 21 - 161 12/23/20 18:52 12/29/20 22:02

Lab Sample ID: LCS 570-118615/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 119335 Prep Batch: 118615

		Spike	LCS	LCS				%Rec.	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	2,4,5-T	40.1	40.88		ug/Kg		102	20 - 153	
	2,4-D	401	321.1		ug/Kg		80	20 - 153	
	0.4.00	104	000.0				00	00 400	

2,4-DB 401 392.6 ug/Kg 20 - 180 LCS LCS

Surrogate	%Recovery Qualifier	Limits
2,4-Dichlorophenylacetic acid	62	21 - 161

Lab Sample ID: LCSD 570-118615/3-A Matrix: Solid Analysis Batch: 119335 Analyte 2,4,5-T 2,4-D								Control Sample Dup Prep Type: Total/NA Prep Batch: 118615		
	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
2,4,5-T	38.6	50.29		ug/Kg		130	20 - 153	21	30	
2,4-D	386	333.9		ug/Kg		86	20 - 153	4	30	
2,4-DB	386	390.8		ug/Kg		101	20 - 180	0	30	

Eurofins Calscience LLC

Page 13 of 25

Prep Type: Total/NA

QC Sample Results

Client: Apex Laboratories LLC Job ID: 570-46895-1 Project/Site: A0L0698

Lab Sample ID: LCSD 570-118615/3-A

Method: 8151A - Herbicides (GC) (Continued)

Matrix: Solid

Analysis Batch: 119335

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 118615

LCSD LCSD

Surrogate %Recovery Qualifier Limits 2,4-Dichlorophenylacetic acid 63 21 - 161

Lab Sample ID: 570-46680-D-7-B MS **Client Sample ID: Matrix Spike**

MS MS

Matrix: Solid

Analysis Batch: 119335

Prep Type: Total/NA

Prep Batch: 118615

%Rec.

Limits

Result Qualifier Added **Analyte** Result Qualifier Unit D %Rec 2,4,5-T ND 40.5 29.42 ug/Kg 73 20 - 168 2,4-D ND 405 211.8 ug/Kg 52 20 - 149 405 2,4-DB ND F1 71.91 JF1 ug/Kg 18 20 - 180

Spike

MS MS

Sample Sample

Surrogate %Recovery Qualifier Limits 2,4-Dichlorophenylacetic acid 22 21 - 161

Lab Sample ID: 570-46680-D-7-C MSD

Matrix: Solid

Analysis Batch: 119335

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 118615

Spike MSD MSD %Rec. **RPD** Sample Sample Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit ND 2,4,5-T 41.0 28.49 70 20 - 168 3 40 ug/Kg 2,4-D ND 410 267.3 ug/Kg 65 20 - 149 23 2,4-DB ND 410 19 F1 76.50 JF1 ug/Kg 20 - 180 6

MSD MSD

Surrogate %Recovery Qualifier Limits 2,4-Dichlorophenylacetic acid 23 21 - 161

Eurofins Calscience LLC

Page 14 of 25

QC Association Summary

Client: Apex Laboratories LLC Job ID: 570-46895-1

Project/Site: A0L0698

GC/MS Semi VOA

Prep Batch: 118921

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Bate
570-46895-1	CB-1	Total/NA	Solid	Organotin Prep
570-46895-2	CB-2	Total/NA	Solid	Organotin Prep
570-46895-3	CB-3	Total/NA	Solid	Organotin Prep
570-46895-4	CB-4	Total/NA	Solid	Organotin Prep
570-46895-5	CB-4_DUP	Total/NA	Solid	Organotin Prep
570-46895-6	CB-5	Total/NA	Solid	Organotin Prep
570-46895-7	CB-6	Total/NA	Solid	Organotin Prep
570-46895-8	CB-7	Total/NA	Solid	Organotin Prep
MB 570-118921/1-A	Method Blank	Total/NA	Solid	Organotin Prep
LCS 570-118921/2-A	Lab Control Sample	Total/NA	Solid	Organotin Prep
LCSD 570-118921/3-A	Lab Control Sample Dup	Total/NA	Solid	Organotin Prep
660-106910-A-1-A MS	Matrix Spike	Total/NA	Solid	Organotin Prep
660-106910-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	Organotin Prep

Analysis Batch: 119430

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46895-1	CB-1	Total/NA	Solid	Organotins SIM	118921
570-46895-2	CB-2	Total/NA	Solid	Organotins SIM	118921
570-46895-3	CB-3	Total/NA	Solid	Organotins SIM	118921
570-46895-4	CB-4	Total/NA	Solid	Organotins SIM	118921
570-46895-5	CB-4_DUP	Total/NA	Solid	Organotins SIM	118921
570-46895-6	CB-5	Total/NA	Solid	Organotins SIM	118921
570-46895-7	CB-6	Total/NA	Solid	Organotins SIM	118921
MB 570-118921/1-A	Method Blank	Total/NA	Solid	Organotins SIM	118921
LCS 570-118921/2-A	Lab Control Sample	Total/NA	Solid	Organotins SIM	118921
LCSD 570-118921/3-A	Lab Control Sample Dup	Total/NA	Solid	Organotins SIM	118921
660-106910-A-1-A MS	Matrix Spike	Total/NA	Solid	Organotins SIM	118921
660-106910-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	Organotins SIM	118921

Analysis Batch: 120060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46895-8	CB-7	Total/NA	Solid	Organotins SIM	118921

GC Semi VOA

Prep Batch: 118615

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46895-1	CB-1	Total/NA	Solid	8151A	
570-46895-2	CB-2	Total/NA	Solid	8151A	
570-46895-3	CB-3	Total/NA	Solid	8151A	
570-46895-4	CB-4	Total/NA	Solid	8151A	
570-46895-5	CB-4_DUP	Total/NA	Solid	8151A	
570-46895-6	CB-5	Total/NA	Solid	8151A	
570-46895-7	CB-6	Total/NA	Solid	8151A	
570-46895-8	CB-7	Total/NA	Solid	8151A	
MB 570-118615/1-A	Method Blank	Total/NA	Solid	8151A	
LCS 570-118615/2-A	Lab Control Sample	Total/NA	Solid	8151A	
LCSD 570-118615/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	
570-46680-D-7-B MS	Matrix Spike	Total/NA	Solid	8151A	
570-46680-D-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8151A	

Page 15 of 25

QC Association Summary

Client: Apex Laboratories LLC
Project/Site: A0L0698

Job ID: 570-46895-1

GC Semi VOA

Analysis Batch: 119335

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-118615/1-A	Method Blank	Total/NA	Solid	8151A	118615
LCS 570-118615/2-A	Lab Control Sample	Total/NA	Solid	8151A	118615
LCSD 570-118615/3-A	Lab Control Sample Dup	Total/NA	Solid	8151A	118615
570-46680-D-7-B MS	Matrix Spike	Total/NA	Solid	8151A	118615
570-46680-D-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8151A	118615

Analysis Batch: 120336

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-46895-1	CB-1	Total/NA	Solid	8151A	118615
570-46895-2	CB-2	Total/NA	Solid	8151A	118615
570-46895-3	CB-3	Total/NA	Solid	8151A	118615
570-46895-4	CB-4	Total/NA	Solid	8151A	118615
570-46895-5	CB-4_DUP	Total/NA	Solid	8151A	118615
570-46895-6	CB-5	Total/NA	Solid	8151A	118615
570-46895-7	CB-6	Total/NA	Solid	8151A	118615
570-46895-8	CB-7	Total/NA	Solid	8151A	118615

2

4

5

6

8

9

10

12

13

14

Lab Chronicle

Client: Apex Laboratories LLC Job ID: 570-46895-1 Project/Site: A0L0698

Lab Sample ID: 570-46895-1 **Client Sample ID: CB-1** Date Collected: 12/17/20 10:10

Matrix: Solid

Date Received: 12/22/20 12:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin Prep			10.2 g	5 mL	118921	12/28/20 11:35	UWEZ	ECL 1
Total/NA	Analysis Instrumer	Organotins SIM at ID: GCMSY		1			119430	12/30/20 17:53	N8CZ	ECL 1
Total/NA	Prep	8151A			48.8 g	5 mL	118615	12/23/20 18:53	J7WE	ECL 1
Total/NA	Analysis	8151A		1			120336	01/05/21 17:38	J7WE	ECL 1
	Instrumer	t ID: GC40								

Client Sample ID: CB-2 Lab Sample ID: 570-46895-2

Date Collected: 12/17/20 08:50 **Matrix: Solid**

Date Received: 12/22/20 12:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin Prep			10.1 g	5 mL	118921	12/28/20 11:35	UWEZ	ECL 1
Total/NA	Analysis Instrumen	Organotins SIM at ID: GCMSY		1			119430	12/30/20 18:11	N8CZ	ECL 1
Total/NA	Prep	8151A			47.5 g	5 mL	118615	12/23/20 18:53	J7WE	ECL 1
Total/NA	Analysis	8151A		1			120336	01/05/21 18:01	J7WE	ECL 1
	Instrumen	t ID: GC40								

Client Sample ID: CB-3 Lab Sample ID: 570-46895-3 Date Collected: 12/17/20 09:15 **Matrix: Solid**

Date Received: 12/22/20 12:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin Prep			10.2 g	5 mL	118921	12/28/20 11:35	UWEZ	ECL 1
Total/NA	Analysis Instrumer	Organotins SIM at ID: GCMSY		1			119430	12/30/20 18:29	N8CZ	ECL 1
Total/NA	Prep	8151A			49.2 g	5 mL	118615	12/23/20 18:53	J7WE	ECL 1
Total/NA	Analysis	8151A		1			120336	01/05/21 18:24	J7WE	ECL 1
	Instrumer	it ID: GC40								

Client Sample ID: CB-4 Lab Sample ID: 570-46895-4

Date Collected: 12/17/20 11:00 Date Received: 12/22/20 12:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin Prep			10.06 g	5 mL	118921	12/28/20 11:35	UWEZ	ECL 1
Total/NA	Analysis	Organotins SIM		1			119430	12/30/20 18:46	N8CZ	ECL 1
	Instrumen	t ID: GCMSY								
Total/NA	Prep	8151A			49.7 g	5 mL	118615	12/23/20 18:53	J7WE	ECL 1
Total/NA	Analysis	8151A		1			120336	01/05/21 18:47	J7WE	ECL 1
	Instrumen	t ID: GC40								

Eurofins Calscience LLC

Page 17 of 25

10

Matrix: Solid

Job ID: 570-46895-1

Client: Apex Laboratories LLC Project/Site: A0L0698

Client Sample ID: CB-4_DUP

Date Collected: 12/17/20 11:05 Date Received: 12/22/20 12:10 Lab Sample ID: 570-46895-5

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin Prep			10.15 g	5 mL	118921	12/28/20 11:35	UWEZ	ECL 1
Total/NA	Analysis Instrumer	Organotins SIM at ID: GCMSY		1			119430	12/30/20 19:03	N8CZ	ECL 1
Total/NA	Prep	8151A			51.8 g	5 mL	118615	12/23/20 18:53	J7WE	ECL 1
Total/NA	Analysis	8151A		1			120336	01/05/21 19:10	J7WE	ECL 1
	Instrumer	nt ID: GC40								

Client Sample ID: CB-5 Lab Sample ID: 570-46895-6

Date Collected: 12/17/20 11:35

Date Received: 12/22/20 12:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin Prep			10.24 g	5 mL	118921	12/28/20 11:35	UWEZ	ECL 1
Total/NA	Analysis Instrumer	Organotins SIM at ID: GCMSY		1			119430	12/30/20 19:20	N8CZ	ECL 1
Total/NA	Prep	8151A			49.1 g	5 mL	118615	12/23/20 18:53	J7WE	ECL 1
Total/NA	Analysis	8151A		1			120336	01/05/21 19:33	J7WE	ECL 1
	Instrumer	it ID: GC40								

Client Sample ID: CB-6 Lab Sample ID: 570-46895-7 **Matrix: Solid**

Date Collected: 12/17/20 13:10

Date Received: 12/22/20 12:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin Prep			10.30 g	5 mL	118921	12/28/20 11:35	UWEZ	ECL 1
Total/NA	Analysis	Organotins SIM		1			119430	12/30/20 19:37	N8CZ	ECL 1
	Instrumer	t ID: GCMSY								
Total/NA	Prep	8151A			47.8 g	5 mL	118615	12/23/20 18:53	J7WE	ECL 1
Total/NA	Analysis	8151A		1			120336	01/05/21 19:56	J7WE	ECL 1
	Instrumer	t ID: GC40								

Client Sample ID: CB-7 Lab Sample ID: 570-46895-8 **Matrix: Solid**

Date Collected: 12/17/20 12:30 Date Received: 12/22/20 12:10

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin Prep			10.03 g	5 mL	118921	12/28/20 11:35	UWEZ	ECL 1
Total/NA	Analysis	Organotins SIM		1			120060	01/04/21 14:09	AJ2Q	ECL 1
	Instrumen	nt ID: GCMSY								
Total/NA	Prep	8151A			49.8 g	5 mL	118615	12/23/20 18:53	J7WE	ECL 1
Total/NA	Analysis	8151A		1			120336	01/05/21 20:18	J7WE	ECL 1
	Instrumen	nt ID: GC40								

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Page 18 of 25

10

Accreditation/Certification Summary

Client: Apex Laboratories LLC Job ID: 570-46895-1

Project/Site: A0L0698

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation	10109	09-30-21
	Districts		
California	SCAQMD LAP	17LA0919	11-30-21
California	State	2944	09-30-21
Guam	State	20-003R	10-31-20 *
Nevada	State	CA00111	07-31-21
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-21

3

5

7

Ö

11

12

14

15

16

 $^{^{\}star} \ \text{Accreditation/Certification renewal pending - accreditation/certification considered valid}.$

Method Summary

Client: Apex Laboratories LLC

Project/Site: A0L0698

Job ID: 570-46895-1

Method	Method Description	Protocol	Laboratory
Organotins SIM	Organotins (GC/MS SIM)	Lab SOP	ECL 1
8151A	Herbicides (GC)	SW846	ECL 1
8151A	Extraction (Herbicides)	SW846	ECL 1
Organotin Prep	Extraction (Organotins)	None	ECL 1

Protocol References:

Lab SOP = Laboratory Standard Operating Procedure

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Apex Laboratories LLC Project/Site: A0L0698

Job ID: 570-46895-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset II
570-46895-1	CB-1	Solid	12/17/20 10:10	12/22/20 12:10	
570-46895-2	CB-2	Solid	12/17/20 08:50	12/22/20 12:10	
570-46895-3	CB-3	Solid	12/17/20 09:15	12/22/20 12:10	
570-46895-4	CB-4	Solid	12/17/20 11:00	12/22/20 12:10	
570-46895-5	CB-4_DUP	Solid	12/17/20 11:05	12/22/20 12:10	
570-46895-6	CB-5	Solid	12/17/20 11:35	12/22/20 12:10	
570-46895-7	CB-6	Solid	12/17/20 13:10	12/22/20 12:10	
570-46895-8	CB-7	Solid	12/17/20 12:30	12/22/20 12:10	

SUBCONTRACT ORDER

Apex Laboratories



12/17/20 10:10

Sub Eurofins_Calscience

Sub Eurofins_Calscience

12/17/20 08:50

Sub Eurofins_Calscience

Sub Eurofins_Calscience

Comments

Comments

B rusus A0L0698

Due

Due

01/08/21 17:00

01/08/21 17:00

01/08/21 17:00

01/08/21 17:00

SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 336-0745

Sample Name: CB-1

8151A Herbicides (SUB)

TBT, Butyl Tins (3) (Sub)

Sample Name: CB-2

8151A Herbicides (SUB)

TBT, Butyl Tins (3) (Sub)

Containers Supplied: (B)4 oz Glass Jar

Analysis

Analysis

Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Eurofins CalScience 7440 Lincoln Way

Garden Grove, CA 92841-1427

Sampled:

Sampled:

Phone: (714) 895-5494 Fax: (714) 894-7501

Solid

Solid

Expires

12/31/20 10.10

12/31/20 10:10

Expires

12/31/20 08:50

12/31/20 08:50

(A0L0698-01)
(A0L0698-02)
(A0L0698-03)

auchuno

Sample Name: CB-3		Solid Sampl	ed: 12/17/20 09:15	(A0L0698-03
Analysis	Due	Expires	Comments	
8151A Herbicides (SUB)	01/08/21 17:00	12/31/20 09:15	Sub Eurofins_Calscience	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
TBT, Butyl Tins (3) (Sub)	01/08/21 17:00	12/31/20 09:15	Sub Eurofins_Calscience	
Containers Supplied:				
(B)4 oz Glass Jar				
Sample Name: CB-4		Solid Sampl	ed: 12/17/20 11:00	(A0L0698-04)
Analysis	Due	Expires	Comments	
	01/04/21 17:00	12/31/20 11:00	Sub Eurofins_Calscience	
8151A Herbicides (SUB)		10/01/00 11 00	Sub Eurofins Calscience	
8151A Herbicides (SUB) TBT, Butyl Tins (3) (Sub)	01/08/21 17:00	12/31/20 11:00	Sub Luionnis_Caiscience	
* *	01/08/21 17:00	12/31/20 11:00	Sub Euronns_Carscience	

Fed Ex (Shipper)

Received By

Fed Ex (Shipper)

Released By

Date

SUBCONTRACT ORDER

Apex Laboratories

als wight AOLO698

Sample Name: CB-4_DUP		Solid Sampl	led: 12/17/20 11:05	aux (UU)70 (A0L0698-05)
Analysis	Due	Expires	Comments	
8151A Herbicides (SUB) TBT, Butyl Tins (3) (Sub) Containers Supplied (B)4 oz Glass Jar	01/08/21 17:00 01/08/21 17·00	12/31/20 11:05 12/31/20 11:05	Sub Eurofins_Calscience Sub Eurofins_Calscience	
Sample Name: CB-5		Solid Sampl	led: 12/17/20 11:35	(A0L0698-06)
Analysis	Due	Expires	Comments	
8151A Herbicides (SUB) TBT, Butyl Tins (3) (Sub) Containers Supplied. (B)4 oz Glass Jar	01/08/21 17:00 01/08/21 17:00	12/31/20 11:35 12/31/20 11:35	Sub Eurofins_Calscience Sub Eurofins_Calscience	
Sample Name: CB-6		Solid Sampl	led: 12/17/20 13:10	(A0L0698-07)
Analysis	Due	Expires	Comments	
8151A Herbicides (SUB) TBT, Butyl Tins (3) (Sub) Containers Supplied (B)4 oz Glass Jar	01/08/21 17:00 01/08/21 17:00	12/31/20 13:10 12/31/20 13:10	Sub Eurofins_Calscience Sub Eurofins_Calscience	
Sample Name: CB-7		Solid Sampl	led: 12/17/20 12:30	(A0L0698-08)
Analysis	Due	Expires	Comments	
8151A Herbicides (SUB) 01/08/21 17:00 TBT, Butyl Tins (3) (Sub) 01/08/21 17:00 Containers Supplied (B)4 oz Glass Jar		12/31/20 12 30 12/31/20 12:30	Sub Eurofins_Calscience Sub Eurofins_Calscience	

Andred TAT

Released By

Released By

Fed Ex (Shipper)

Date

Fed Ex (Shipper)

Received By

12/22/200

Date

12:10

Page 4 of 4

Page 23 of 25

Received By

1/6/2021

Login Sample Receipt Checklist

Client: Apex Laboratories LLC Job Number: 570-46895-1

Login Number: 46895 List Source: Eurofins Calscience

List Number: 1

Creator: Patel, Jayesh

orcator. I atol, bayesii		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 66mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

J

6

8

10

4.0

13

15

116

ANALYTICAL SAMPLE RESULTS

		Per	cent Dry W	eight					
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dil	ution	Date Analyzed	Method Ref.	Notes
CB-1 (A0L0698-01)				Matrix:	Solid		Batch:	0120974	
% Solids	32.9	الميام	1.00	%		1	12/31/20 07:21	EPA 8000D	
CB-2 (A0L0698-02)				Matrix:	Solid		Batch:	0120974	
% Solids	72.0		1.00	%		1	12/31/20 07:21	EPA 8000D	
CB-3 (A0L0698-03)				Matrix:	Solid		Batch:		
% Solids	58.8		1.00	%		1	12/31/20 07:21	EPA 8000D	
CB-4 (A0L0698-04)				Matrix:	Solid		Batch:	0120974	
% Solids	29.3		1.00	%		1	12/31/20 07:21	EPA 8000D	
CB-4_DUP (A0L0698-05)				Matrix:	Solid		Batch:	0120933	
% Solids	26.6		1.00	%		1	12/30/20 07:25	EPA 8000D	
CB-5 (A0L0698-06)				Matrix:	Solid		Batch:	0120974	
% Solids	32.4		1.00	%		1	12/31/20 07:21	EPA 8000D	
CB-6 (A0L0698-07)				Matrix:	Solid		Batch:	0120974	
% Solids	33.5	-	1.00	%		1	12/31/20 07:21	EPA 8000D	
CB-7 (A0L0698-08)				Matrix:	Solid		Batch:	0120974	
% Solids	40.2		1.00	%		1	12/31/20 07:21	EPA 8000D	

DRAFT REPORT

The results provided in this report are PRELIMINARY and are subject to change based on subsequent analysis, QC validation or final data review. Please use these results with the understanding that they may have not been finalized by the laboratory.

DRAFT REPORT, DATA SUBJECT TO CHANGE

Page 3 of 12

3

4

6

8

9

11

12

14

15

-



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Wednesday, April 21, 2021 Kyle Haggart GeoDesign, Inc. 9450 SW Commerce Circle Wilsonville, OR 97070

RE: A1C0750 - Former Automatic Vending Co. - BCSAmerica-1-02

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A1C0750, which was received by the laboratory on 3/18/2021 at 5:45:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler#1 4.6 degC
Cooler#3 3.1 degC

Cooler#2 5.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.





Page 1 of 53

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION										
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received						
SW-1(031821)	A1C0750-01	Water	03/18/21 08:42	03/18/21 17:45						
SW-1-DUP(031821)	A1C0750-02	Water	03/18/21 08:48	03/18/21 17:45						
SW-2(031821)	A1C0750-03	Water	03/18/21 09:00	03/18/21 17:45						
SW-1-TB(031821)	A1C0750-04	Water	03/18/21 00:00	03/18/21 17:45						
SW-1-DUP-TB(031821)	A1C0750-05	Water	03/18/21 00:00	03/18/21 17:45						
SW-2-TB(031821)	A1C0750-06	Water	03/18/21 00:00	03/18/21 17:45						

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	il Hydrocar	bons by NWTPI	H-Dx				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
SW-1(031821) (A1C0750-01)				1030960					
Diesel	ND	0.110	0.220	mg/L	1	03/25/21 07:51	NWTPH-Dx		
Oil	ND	0.220	0.440	mg/L	1	03/25/21 07:51	NWTPH-Dx		
Surrogate: o-Terphenyl (Surr)		Reco	very: 91 %	Limits: 50-150 %	5 1	03/25/21 07:51	NWTPH-Dx		
SW-1-DUP(031821) (A1C0750-02)			Matrix: Water				Batch: 1030960		
Diesel	ND	0.118	0.235	mg/L	1	03/24/21 23:19	NWTPH-Dx		
Oil	ND	0.235	0.471	mg/L	1	03/24/21 23:19	NWTPH-Dx		
Surrogate: o-Terphenyl (Surr)		Reco	very: 99 %	Limits: 50-150 %	5 1	03/24/21 23:19	NWTPH-Dx		
SW-2(031821) (A1C0750-03)				Matrix: Wate	er	Batch:	1030960		
Diesel	0.205	0.0962	0.192	mg/L	1	03/24/21 23:40	NWTPH-Dx	F-11, F-15	
Oil	0.502	0.192	0.385	mg/L	1	03/24/21 23:40	NWTPH-Dx	F-16	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 101 %	Limits: 50-150 %	1	03/24/21 23:40	NWTPH-Dx		

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons (l	Benzene tl	hrough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(031821) (A1C0750-01)	031821) (A1C0750-01) Matrix: Water Batch: 10							
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	03/22/21 12:51	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 93 %	Limits: 50-150 %	5 1	03/22/21 12:51	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			102 %	50-150 %	1	03/22/21 12:51	NWTPH-Gx (MS)	
SW-1-DUP(031821) (A1C0750-02)				Matrix: Water Batch: 1030808				
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	03/22/21 13:19	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 95 %	Limits: 50-150 %	5 1	03/22/21 13:19	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			102 %	50-150 %	5 1	03/22/21 13:19	NWTPH-Gx (MS)	
SW-2(031821) (A1C0750-03)	-	-		Matrix: Wate	er	Batch	: 1030808	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	03/22/21 13:46	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 94%	Limits: 50-150 %	5 I	03/22/21 13:46	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			102 %	50-150 %	<i>i</i> 1	03/22/21 13:46	NWTPH-Gx (MS)	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
W-1(031821) (A1C0750-01)				Matrix: Water		Batch: 1030808		
Acetone	20.5	10.0	20.0	ug/L	1	03/22/21 12:51	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/22/21 12:51	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/22/21 12:51	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/22/21 12:51	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/22/21 12:51	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/22/21 12:51	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Chloromethane	ND	5.00	5.00	ug/L	1	03/22/21 12:51	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/22/21 12:51	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/22/21 12:51	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/22/21 12:51	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/22/21 12:51	EPA 8260D	
-Hexanone	ND	5.00	10.0	ug/L	1	03/22/21 12:51	EPA 8260D	
sopropylbenzene	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
l-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/22/21 12:51	EPA 8260D	
-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L ug/L	1	03/22/21 12:51	EPA 8260D	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	V	olatile Organic	Compou	nds by EPA 826	0D			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-1(031821) (A1C0750-01)				Matrix: Wate	r	Batch:	1030808	
Naphthalene	ND	2.00	4.00	ug/L	1	03/22/21 12:51	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/22/21 12:51	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/22/21 12:51	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/22/21 12:51	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/22/21 12:51	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/22/21 12:51	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/22/21 12:51	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/22/21 12:51	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery.	: 100 %	Limits: 80-120 %	I	03/22/21 12:51	EPA 8260D	
Toluene-d8 (Surr)			99 %	80-120 %	1	03/22/21 12:51	EPA 8260D	
4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	03/22/21 12:51	EPA 8260D	
SW-1-DUP(031821) (A1C0750-02)				Matrix: Wate	r	Batch:	1030808	
Acetone	20.4	10.0	20.0	ug/L	1	03/22/21 13:19	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/22/21 13:19	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/22/21 13:19	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/22/21 13:19	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/22/21 13:19	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/22/21 13:19	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/22/21 13:19	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/22/21 13:19	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/22/21 13:19	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/22/21 13:19	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/22/21 13:19	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/22/21 13:19	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/22/21 13:19	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/22/21 13:19	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/22/21 13:19	EPA 8260D	
Chloromethane	ND	5.00	5.00	ug/L	1	03/22/21 13:19	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/22/21 13:19	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/22/21 13:19	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/22/21 13:19	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/22/21 13:19	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/22/21 13:19	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 6 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

Sample Detection Reporting Limit Limit Units	260D				
1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1,4-Dichlorobenzene ND 0.250 0.500 ug/L Dichlorodifluoromethane ND 0.500 1.00 ug/L 1,3-Dichloropropane ND 0.500 1.00 ug/L 2,2-Dichloropropane ND 0.500 1.00 ug/L 1,1-Dichloropropene ND 0.500 1.00 ug/L Hexachlorobutadiene ND 2.50 5.00 ug/L 2-Hexanone ND 5.00 10.0 ug/L	Dilution	Date Analyzed	Method Ref.	Notes	
1,4-Dichlorobenzene ND 0.250 0.500 ug/L Dichlorodifluoromethane ND 0.500 1.00 ug/L 1,3-Dichloropropane ND 0.500 1.00 ug/L 2,2-Dichloropropane ND 0.500 1.00 ug/L 1,1-Dichloropropene ND 0.500 1.00 ug/L Hexachlorobutadiene ND 2.50 5.00 ug/L 2-Hexanone ND 5.00 10.0 ug/L	ter	Batch:	Batch: 1030808		
Dichlorodifluoromethane ND 0.500 1.00 ug/L 1,3-Dichloropropane ND 0.500 1.00 ug/L 2,2-Dichloropropane ND 0.500 1.00 ug/L 1,1-Dichloropropene ND 0.500 1.00 ug/L Hexachlorobutadiene ND 2.50 5.00 ug/L 2-Hexanone ND 5.00 10.0 ug/L	1	03/22/21 13:19	EPA 8260D		
1,3-Dichloropropane ND 0.500 1.00 ug/L 2,2-Dichloropropane ND 0.500 1.00 ug/L 1,1-Dichloropropene ND 0.500 1.00 ug/L Hexachlorobutadiene ND 2.50 5.00 ug/L 2-Hexanone ND 5.00 10.0 ug/L	1	03/22/21 13:19	EPA 8260D		
2,2-Dichloropropane ND 0.500 1.00 ug/L 1,1-Dichloropropene ND 0.500 1.00 ug/L Hexachlorobutadiene ND 2.50 5.00 ug/L 2-Hexanone ND 5.00 10.0 ug/L	1	03/22/21 13:19	EPA 8260D		
1,1-Dichloropropene ND 0.500 1.00 ug/L Hexachlorobutadiene ND 2.50 5.00 ug/L 2-Hexanone ND 5.00 10.0 ug/L	1	03/22/21 13:19	EPA 8260D		
Hexachlorobutadiene ND 2.50 5.00 ug/L 2-Hexanone ND 5.00 10.0 ug/L	1	03/22/21 13:19	EPA 8260D		
2-Hexanone ND 5.00 10.0 ug/L	1	03/22/21 13:19	EPA 8260D		
	1	03/22/21 13:19	EPA 8260D		
Isopropylbenzene ND 0.500 1.00 ug/L	1	03/22/21 13:19	EPA 8260D		
	1	03/22/21 13:19	EPA 8260D		
4-Isopropyltoluene ND 0.500 1.00 ug/L	1	03/22/21 13:19	EPA 8260D		
Methylene chloride ND 5.00 10.0 ug/L	1	03/22/21 13:19	EPA 8260D		
4-Methyl-2-pentanone (MiBK) ND 5.00 10.0 ug/L	1	03/22/21 13:19	EPA 8260D		
Naphthalene ND 2.00 4.00 ug/L	1	03/22/21 13:19	EPA 8260D		
n-Propylbenzene ND 0.250 0.500 ug/L	1	03/22/21 13:19	EPA 8260D		
Styrene ND 0.500 1.00 ug/L	1	03/22/21 13:19	EPA 8260D		
1,1,1,2-Tetrachloroethane ND 0.200 0.400 ug/L	1	03/22/21 13:19	EPA 8260D		
1,2,3-Trichlorobenzene ND 1.00 2.00 ug/L	1	03/22/21 13:19	EPA 8260D		
1,2,4-Trichlorobenzene ND 1.00 2.00 ug/L	1	03/22/21 13:19	EPA 8260D		
1,1,1-Trichloroethane ND 0.200 0.400 ug/L	1	03/22/21 13:19	EPA 8260D		
Trichlorofluoromethane ND 1.00 2.00 ug/L	1	03/22/21 13:19	EPA 8260D		
Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120	% I	03/22/21 13:19	EPA 8260D		
Toluene-d8 (Surr) 99 % 80-120	% 1	03/22/21 13:19	EPA 8260D		
4-Bromofluorobenzene (Surr) 101 % 80-120 9	% 1	03/22/21 13:19	EPA 8260D		
SW-2(031821) (A1C0750-03) Matrix: Wat	ter	Batch:	1030808		
Acetone ND 20.0 20.0 ug/L	1	03/22/21 13:46	EPA 8260D		
Acrylonitrile ND 1.00 2.00 ug/L	1	03/22/21 13:46	EPA 8260D		
Bromobenzene ND 0.250 0.500 ug/L	1	03/22/21 13:46	EPA 8260D		
Bromochloromethane ND 0.500 1.00 ug/L	1	03/22/21 13:46	EPA 8260D		
Bromodichloromethane ND 0.500 1.00 ug/L	1	03/22/21 13:46	EPA 8260D		
Bromoform ND 0.500 1.00 ug/L	1	03/22/21 13:46	EPA 8260D		
Bromomethane ND 5.00 5.00 ug/L	1	03/22/21 13:46	EPA 8260D		
2-Butanone (MEK) ND 5.00 10.0 ug/L	1	03/22/21 13:46	EPA 8260D		
n-Butylbenzene ND 0.500 1.00 ug/L	1	03/22/21 13:46	EPA 8260D		

Apex Laboratories

Philip Newberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	V	olatile Organ	ic Compoun	ids by EPA 826	30D			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-2(031821) (A1C0750-03)				Matrix: Wate	er	Batch:	1030808	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/22/21 13:46	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/22/21 13:46	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/22/21 13:46	EPA 8260D	
Chloromethane	ND	5.00	5.00	ug/L	1	03/22/21 13:46	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/22/21 13:46	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/22/21 13:46	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/22/21 13:46	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/22/21 13:46	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/22/21 13:46	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/22/21 13:46	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/22/21 13:46	EPA 8260D	
Naphthalene	ND	2.00	4.00	ug/L	1	03/22/21 13:46	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/22/21 13:46	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/22/21 13:46	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/22/21 13:46	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/22/21 13:46	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/22/21 13:46	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/22/21 13:46	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/22/21 13:46	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-120 %	6 I	03/22/21 13:46	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D									
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	s	Dilution	Date Analyzed	Method Ref.	Notes
SW-2(031821) (A1C0750-03)				Matrix	: Wate	r	Batch:	1030808	
Surrogate: Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr)		Recove	ery: 100 % 100 %	Limits: 80)-120 %)-120 %		03/22/21 13:46 03/22/21 13:46	EPA 8260D EPA 8260D	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	Vol	atile Organic C	ompound	s by EPA 8260D	SIM			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(031821) (A1C0750-01)				Matrix: Water	r	Batch:	: 1031037	
Benzene	ND	0.0500	0.100	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
Toluene	0.0677	0.0500	0.100	ug/L	1	03/26/21 13:47	EPA 8260D SIM	J
Ethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
m,p-Xylene	0.147	0.100	0.200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	J
o-Xylene	0.0588	0.0500	0.100	ug/L	1	03/26/21 13:47	EPA 8260D SIM	J
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	03/26/21 13:47	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery:	102 %	Limits: 80-120 %	1	03/26/21 13:47	EPA 8260D SIM	
Toluene-d8 (Surr)			95 %	80-120 %		03/26/21 13:47	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			95 %	80-120 %	1	03/26/21 13:47	EPA 8260D SIM	
SW-1-DUP(031821) (A1C0750-02)				Matrix: Water	r	Batch:	: 1031037	
Benzene	ND	0.0500	0.100	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
Toluene	0.0675	0.0500	0.100	ug/L	1	03/26/21 14:13	EPA 8260D SIM	J
Ethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 14:13	EPA 8260D SIM	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Neimberg

Page 10 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	Vol	atile Organic	Compound	ls by EPA 82600	DSIM			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-1-DUP(031821) (A1C0750-02)				Matrix: Wate	ər	Batch:	1031037	
m,p-Xylene	0.127	0.100	0.200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	J
o-Xylene	ND	0.0500	0.100	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	03/26/21 14:13	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ry: 102 %	Limits: 80-120 %	6 I	03/26/21 14:13	EPA 8260D SIM	
Toluene-d8 (Surr)			92 %	80-120 %		03/26/21 14:13	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			95 %	80-120 %	6 I	03/26/21 14:13	EPA 8260D SIM	
SW-2(031821) (A1C0750-03)				Matrix: Wate	er	Batch:	1031037	
Benzene	ND	0.0500	0.100	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
m,p-Xylene	ND	0.100	0.200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
o-Xylene	ND	0.0500	0.100	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
•				-				

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Newberg

Page 11 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	VOI	aule Organic	compound	s by EPA 82600	ואופ ע			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-2(031821) (A1C0750-03)				Matrix: Wate	er	Batch: 1031037		
Chloroform	ND	0.0500	0.100	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	03/26/21 14:40	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-120 %	1	03/26/21 14:40	EPA 8260D SIM	
Toluene-d8 (Surr)			95 %	80-120 %		03/26/21 14:40	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			95 %	80-120 %	1	03/26/21 14:40	EPA 8260D SIM	
W-1-TB(031821) (A1C0750-04)				Matrix: Wate	er	Batch:	1031037	
Benzene	ND	0.0500	0.100	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
m,p-Xylene	ND	0.100	0.200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
o-Xylene	ND	0.0500	0.100	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Newberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-1-TB(031821) (A1C0750-04)				Matrix: Wate	er	Batch: 1031037		
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	03/26/21 12:26	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 103 %	Limits: 80-120 %	1	03/26/21 12:26	EPA 8260D SIM	
Toluene-d8 (Surr)			97 %	80-120 %	1	03/26/21 12:26	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	03/26/21 12:26	EPA 8260D SIM	
SW-1-DUP-TB(031821) (A1C0750-05)				Matrix: Wate	er	Batch:	1031037	
Benzene	ND	0.0500	0.100	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
m,p-Xylene	ND	0.100	0.200	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
o-Xylene	ND	0.0500	0.100	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM											
	Sample	Detection	Reporting			Date					
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes			
SW-1-DUP-TB(031821) (A1C0750-05)				Matrix: Wate	er	Batch: 1031037					
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM				
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM				
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM				
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM				
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM				
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM				
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM				
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM				
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	03/26/21 12:53	EPA 8260D SIM				
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	03/26/21 12:53	EPA 8260D SIM				
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-120 %	1	03/26/21 12:53	EPA 8260D SIM				
Toluene-d8 (Surr)			95 %	80-120 %		03/26/21 12:53	EPA 8260D SIM				
4-Bromofluorobenzene (Surr)			96 %	80-120 %	1	03/26/21 12:53	EPA 8260D SIM				
SW-2-TB(031821) (A1C0750-06)				Matrix: Wate	er	Batch:	1031037				
Benzene	ND	0.0500	0.100	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
Toluene	ND	0.0500	0.100	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
Ethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
m,p-Xylene	ND	0.100	0.200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
o-Xylene	ND	0.0500	0.100	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
Chloroform	ND	0.0500	0.100	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				

Apex Laboratories

Philip Newberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM											
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes			
SW-2-TB(031821) (A1C0750-06)				Matrix: Water Batch: 1031037							
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	03/26/21 13:20	EPA 8260D SIM				
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-120 %	6 I	03/26/21 13:20	EPA 8260D SIM				
Toluene-d8 (Surr)			96 %	80-120 %	6 I	03/26/21 13:20	EPA 8260D SIM				
4-Bromofluorobenzene (Surr)			97 %	80-120 %	6 I	03/26/21 13:20	EPA 8260D SIM				

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	Polychlorinated Biphenyls by EPA 8082A											
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Note				
SW-1(031821) (A1C0750-01)				Matrix: Wate	er	Batch: 1031065		C-07				
Aroclor 1016	ND	0.0123	0.0247	ug/L	1	03/29/21 15:56	EPA 8082A					
Aroclor 1221	ND	0.0247	0.0247	ug/L	1	03/29/21 15:56	EPA 8082A					
Aroclor 1232	ND	0.0123	0.0247	ug/L	1	03/29/21 15:56	EPA 8082A					
Aroclor 1242	ND	0.0123	0.0247	ug/L	1	03/29/21 15:56	EPA 8082A					
Aroclor 1248	ND	0.0123	0.0247	ug/L	1	03/29/21 15:56	EPA 8082A					
Aroclor 1254	ND	0.0123	0.0247	ug/L	1	03/29/21 15:56	EPA 8082A					
Aroclor 1260	ND	0.0123	0.0247	ug/L	1	03/29/21 15:56	EPA 8082A					
Surrogate: Decachlorobiphenyl (Surr)		Recov	ery: 72 %	Limits: 40-135 %	5 1	03/29/21 15:56	EPA 8082A					
SW-1-DUP(031821) (A1C0750-02)				Matrix: Water		Batch: 1031065		C-07				
Aroclor 1016	ND	0.0106	0.0213	ug/L	1	03/29/21 16:14	EPA 8082A					
Aroclor 1221	ND	0.0213	0.0213	ug/L	1	03/29/21 16:14	EPA 8082A					
Aroclor 1232	ND	0.0106	0.0213	ug/L	1	03/29/21 16:14	EPA 8082A					
Aroclor 1242	ND	0.0106	0.0213	ug/L	1	03/29/21 16:14	EPA 8082A					
Aroclor 1248	ND	0.0106	0.0213	ug/L	1	03/29/21 16:14	EPA 8082A					
Aroclor 1254	ND	0.0106	0.0213	ug/L	1	03/29/21 16:14	EPA 8082A					
Aroclor 1260	ND	0.0106	0.0213	ug/L	1	03/29/21 16:14	EPA 8082A					
Surrogate: Decachlorobiphenyl (Surr)		Recov	ery: 69 %	Limits: 40-135 %	5 1	03/29/21 16:14	EPA 8082A					
W-2(031821) (A1C0750-03)				Matrix: Water		Batch: 1031065		C-07				
Aroclor 1016	ND	0.00952	0.0190	ug/L	1	03/29/21 16:31	EPA 8082A					
Aroclor 1221	ND	0.00952	0.0190	ug/L	1	03/29/21 16:31	EPA 8082A					
Aroclor 1232	ND	0.00952	0.0190	ug/L	1	03/29/21 16:31	EPA 8082A					
Aroclor 1242	ND	0.00952	0.0190	ug/L	1	03/29/21 16:31	EPA 8082A					
Aroclor 1248	ND	0.00952	0.0190	ug/L	1	03/29/21 16:31	EPA 8082A					
Aroclor 1254	ND	0.00952	0.0190	ug/L	1	03/29/21 16:31	EPA 8082A					
Aroclor 1260	ND	0.00952	0.0190	ug/L	1	03/29/21 16:31	EPA 8082A					
Surrogate: Decachlorobiphenyl (Surr)		Recov	ery: 63 %	Limits: 40-135 %	5 1	03/29/21 16:31	EPA 8082A					

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	Sample	Detection I	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
W-1(031821) (A1C0750-01RE1)				Matrix: Wate	r	Batch:	1030999	R-04
Acenaphthene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Acenaphthylene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Anthracene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Benz(a)anthracene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Benzo(a)pyrene	ND	0.0659	0.132	ug/L	4	03/26/21 19:31	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0659	0.132	ug/L	4	03/26/21 19:31	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0659	0.132	ug/L	4	03/26/21 19:31	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Chrysene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Fluoranthene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Fluorene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
1-Methylnaphthalene	ND	0.0879	0.176	ug/L	4	03/26/21 19:31	EPA 8270E	
2-Methylnaphthalene	ND	0.0879	0.176	ug/L	4	03/26/21 19:31	EPA 8270E	
Naphthalene	ND	0.0879	0.176	ug/L	4	03/26/21 19:31	EPA 8270E	
Phenanthrene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Pyrene	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Carbazole	ND	0.0659	0.132	ug/L	4	03/26/21 19:31	EPA 8270E	
Dibenzofuran	ND	0.0440	0.0879	ug/L	4	03/26/21 19:31	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.879	1.76	ug/L	4	03/26/21 19:31	EPA 8270E	
Butyl benzyl phthalate	ND	0.879	1.76	ug/L	4	03/26/21 19:31	EPA 8270E	
Diethylphthalate	ND	0.879	1.76	ug/L	4	03/26/21 19:31	EPA 8270E	
Dimethylphthalate	ND	0.879	1.76	ug/L	4	03/26/21 19:31	EPA 8270E	
Di-n-butylphthalate	ND	0.879	1.76	ug/L	4	03/26/21 19:31	EPA 8270E	
Di-n-octyl phthalate	ND	0.879	1.76	ug/L	4	03/26/21 19:31	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery.	57%	Limits: 44-120 %	4	03/26/21 19:31	EPA 8270E	Q-4
2-Fluorobiphenyl (Surr)			47 %	44-120 %		03/26/21 19:31	EPA 8270E	
Phenol-d6 (Surr)			19 %	10-133 %		03/26/21 19:31	EPA 8270E	
p-Terphenyl-d14 (Surr)			62 %	50-134 %		03/26/21 19:31	EPA 8270E	
2-Fluorophenol (Surr)			26 % 83 %	19-120 % 43-140 %		03/26/21 19:31 03/26/21 19:31	EPA 8270E EPA 8270E	
2,4,6-Tribromophenol (Surr)			03 70	45-140 %	4	03/20/21 19:31	EFA 02/UE	
W-1-DUP(031821) (A1C0750-02RE1)				Matrix: Wate	r	Batch:	1030999	R-04

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	Sample		Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
SW-1-DUP(031821) (A1C0750-02RE1)				Matrix: Wate	r	Batch:	1030999	R-04
Acenaphthene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Acenaphthylene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Anthracene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Benz(a)anthracene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Benzo(a)pyrene	ND	0.0690	0.138	ug/L	4	03/26/21 20:06	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0690	0.138	ug/L	4	03/26/21 20:06	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0690	0.138	ug/L	4	03/26/21 20:06	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Chrysene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Fluoranthene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Fluorene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
1-Methylnaphthalene	ND	0.0920	0.184	ug/L	4	03/26/21 20:06	EPA 8270E	
2-Methylnaphthalene	ND	0.0920	0.184	ug/L	4	03/26/21 20:06	EPA 8270E	
Naphthalene	ND	0.0920	0.184	ug/L	4	03/26/21 20:06	EPA 8270E	
Phenanthrene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Pyrene	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Carbazole	ND	0.0690	0.138	ug/L	4	03/26/21 20:06	EPA 8270E	
Dibenzofuran	ND	0.0460	0.0920	ug/L	4	03/26/21 20:06	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.920	1.84	ug/L	4	03/26/21 20:06	EPA 8270E	
Butyl benzyl phthalate	ND	0.920	1.84	ug/L	4	03/26/21 20:06	EPA 8270E	
Diethylphthalate	ND	0.920	1.84	ug/L	4	03/26/21 20:06	EPA 8270E	
Dimethylphthalate	ND	0.920	1.84	ug/L	4	03/26/21 20:06	EPA 8270E	
Di-n-butylphthalate	ND	0.920	1.84	ug/L	4	03/26/21 20:06	EPA 8270E	
Di-n-octyl phthalate	ND	0.920	1.84	ug/L	4	03/26/21 20:06	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery	·: 56 %	Limits: 44-120 %	4	03/26/21 20:06	EPA 8270E	Q-41
2-Fluorobiphenyl (Surr)			44 %	44-120 %		03/26/21 20:06	EPA 8270E	
Phenol-d6 (Surr)			20 %	10-133 %		03/26/21 20:06	EPA 8270E	
p-Terphenyl-d14 (Surr)			63 %	50-134 %		03/26/21 20:06	EPA 8270E	
2-Fluorophenol (Surr)			25 %	19-120 %		03/26/21 20:06	EPA 8270E	
2,4,6-Tribromophenol (Surr)			81 %	43-140 %		03/26/21 20:06	EPA 8270E	
W-2(031821) (A1C0750-03RE1)				Matrix: Wate	r	Batch:	1030999	R-04

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	Semivolatile Organic Compounds by EPA 8270E										
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes			
SW-2(031821) (A1C0750-03RE1)				Matrix: Wate			1030999	R-04			
Acenaphthene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Acenaphthylene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Anthracene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Benz(a)anthracene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Benzo(a)pyrene	ND	0.0561	0.112	ug/L	4	03/26/21 20:42	EPA 8270E				
Benzo(b)fluoranthene	ND	0.0561	0.112	ug/L	4	03/26/21 20:42	EPA 8270E				
Benzo(k)fluoranthene	ND	0.0561	0.112	ug/L	4	03/26/21 20:42	EPA 8270E				
Benzo(g,h,i)perylene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Chrysene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Dibenz(a,h)anthracene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Fluoranthene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Fluorene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Indeno(1,2,3-cd)pyrene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
1-Methylnaphthalene	ND	0.0748	0.150	ug/L	4	03/26/21 20:42	EPA 8270E				
2-Methylnaphthalene	ND	0.0748	0.150	ug/L	4	03/26/21 20:42	EPA 8270E				
Naphthalene	ND	0.0748	0.150	ug/L	4	03/26/21 20:42	EPA 8270E				
Phenanthrene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Pyrene	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Carbazole	ND	0.0561	0.112	ug/L	4	03/26/21 20:42	EPA 8270E				
Dibenzofuran	ND	0.0374	0.0748	ug/L	4	03/26/21 20:42	EPA 8270E				
Bis(2-ethylhexyl)phthalate	ND	0.748	1.50	ug/L	4	03/26/21 20:42	EPA 8270E				
Butyl benzyl phthalate	ND	0.748	1.50	ug/L	4	03/26/21 20:42	EPA 8270E				
Diethylphthalate	ND	0.748	1.50	ug/L	4	03/26/21 20:42	EPA 8270E				
Dimethylphthalate	ND	0.748	1.50	ug/L	4	03/26/21 20:42	EPA 8270E				
Di-n-butylphthalate	ND	0.748	1.50	ug/L	4	03/26/21 20:42	EPA 8270E				
Di-n-octyl phthalate	ND	0.748	1.50	ug/L	4	03/26/21 20:42	EPA 8270E				
Surrogate: Nitrobenzene-d5 (Surr)		Recov	ery: 78 %	Limits: 44-120 %	4	03/26/21 20:42	EPA 8270E	Q-41			
2-Fluorobiphenyl (Surr)			61 %	44-120 %	4	03/26/21 20:42	EPA 8270E				
Phenol-d6 (Surr)			28 %	10-133 %		03/26/21 20:42	EPA 8270E				
p-Terphenyl-d14 (Surr)			62 %	50-134 %		03/26/21 20:42	EPA 8270E				
2-Fluorophenol (Surr) 2,4,6-Tribromophenol (Surr)			38 % 92 %	19-120 % 43-140 %		03/26/21 20:42 03/26/21 20:42	EPA 8270E EPA 8270E				

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 19 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

		Total Meta	als by EPA 20	0.8 (ICPMS)			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(031821) (A1C0750-01)				Matrix: W	ater			
Batch: 1031154								
Chromium	ND	0.500	1.00	ug/L	1	03/30/21 20:18	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/21 20:18	EPA 200.8	
Zinc	79.5	2.00	4.00	ug/L	1	03/30/21 20:18	EPA 200.8	
SW-1-DUP(031821) (A1C0750-02)				Matrix: W	ater			
Batch: 1031154								
Chromium	ND	0.500	1.00	ug/L	1	03/30/21 20:23	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/21 20:23	EPA 200.8	
Zinc	77.3	2.00	4.00	ug/L	1	03/30/21 20:23	EPA 200.8	
SW-2(031821) (A1C0750-03)				Matrix: W	ater			
Batch: 1031154								
Chromium	ND	0.500	1.00	ug/L	1	03/30/21 20:28	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	03/30/21 20:28	EPA 200.8	
Zinc	142	2.00	4.00	ug/L	1	03/30/21 20:28	EPA 200.8	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

ANALYTICAL SAMPLE RESULTS

	Tot	al Metals by	EPA 200.8 (IC	PMS) - Lov	v Level			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(031821) (A1C0750-01)	1100011	2		Matrix: W		111111/200	Wedned Ref.	110105
Batch: 1040504				Matrix. VV	4101			
Arsenic	0.207	0.0500	0.100	ug/L	1	04/19/21 16:04	EPA 200.8-LL	
SW-1(031821) (A1C0750-01RE2)				Matrix: W	ater			
Batch: 1040504								
Cadmium	0.0347	0.00900	0.0180	ug/L	1	04/19/21 20:05	EPA 200.8-LL	
SW-1-DUP(031821) (A1C0750-02)				Matrix: W	ater			
Batch: 1040504								
Arsenic	0.185	0.0500	0.100	ug/L	1	04/19/21 16:11	EPA 200.8-LL	
SW-1-DUP(031821) (A1C0750-02RE1)				Matrix: W	ater			
Batch: 1040504								
Cadmium	0.0327	0.00900	0.0180	ug/L	1	04/19/21 19:44	EPA 200.8-LL	
SW-2(031821) (A1C0750-03)				Matrix: W	ater			
Batch: 1040504								
Arsenic	0.239	0.0500	0.100	ug/L	1	04/19/21 16:18	EPA 200.8-LL	
Cadmium	0.0683	0.00900	0.0180	ug/L	1	04/19/21 16:18	EPA 200.8-LL	

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 21 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

	Di	esel and/o	r Oil Hyd	rocarbon	s by NWT	PH-Dx					
Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Fuels/Acid	Ext.)					Wat	er				
		Prepared	1: 03/24/21	13:23 Anal	lyzed: 03/25/	/21 04:54					
ND	0.0909	0.182	mg/L	1							
ND	0.182	0.364	mg/L	1							
	Reco	very: 93 %	Limits: 50)-150 %	Dilı	ıtion: 1x					
		Prepared	1: 03/24/21	13:23 Ana	lyzed: 03/25/	/21 05:16					
1.05	0.100	0.200	mg/L	1	1.25		84	59-115%			
	Reco	very: 99 %	Limits: 50)-150 %	Dilı	ution: 1x					
		Prepared	1: 03/24/21	13:23 Anal	lyzed: 03/25/	/21 05:38					Q -1
	<u> </u>									<u> </u>	
1.03	0.100	0.200	mg/L	1	1.25		82	59-115%	2	30%	
	Reco	very: 97 %	Limits: 50	-150 %	Dilı	ıtion: 1x					
	ND ND ND	Detection Limit	Detection Reporting Limit	Result Detection Limit Reporting Limit Units Fuels/Acid Ext.) ND 0.0909 0.182 mg/L ND 0.182 0.364 mg/L Recovery: 93 % Limits: 50 Prepared: 03/24/21 1.05 0.100 0.200 mg/L Recovery: 99 % Limits: 50 Prepared: 03/24/21 1.03 0.100 0.200 mg/L	Detection Reporting Limit Units Dilution	Result Detection Limit Reporting Limit Units Dilution Spike Amount Fuels/Acid Ext.) Prepared: 03/24/21 13:23 Analyzed: 03/25. ND 0.0909 0.182 mg/L 1 ND 0.182 0.364 mg/L 1 Recovery: 93 % Limits: 50-150 % Dilution Prepared: 03/24/21 13:23 Analyzed: 03/25. 1.05 0.100 0.200 mg/L 1 1.25 Prepared: 03/24/21 13:23 Analyzed: 03/25. 1.03 0.100 0.200 mg/L 1 1.25	Result Limit Limit Units Dilution Amount Result	Result Detection Limit Reporting Limit Units Dilution Spike Amount Source Result % REC Fuels/Acid Ext.) Water Prepared: 03/24/21 13:23 Analyzed: 03/25/21 04:54 ND 0.0909 0.182 mg/L 1	Detection Reporting Units Dilution Spike Source Result Resu	Result Detection Limit Limit Units Dilution Spike Source Result % REC Limits RPD	Result Detection Reporting Limit Units Dilution Spike Result Resul

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	ydrocarbo	ns (Ben	zene thro	ugh Naph	thalene) l	y NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030808 - EPA 5030B							Wat	er				
Blank (1030808-BLK1)			Prepared	1: 03/22/21	07:30 Anal	lyzed: 03/22	/21 10:33					
NWTPH-Gx (MS) Gasoline Range Organics	ND	0.0500	0.100	mg/L	1							
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 94 % 103 %	Limits: 5	0-150 % 0-150 %	Dilı	ution: 1x					
LCS (1030808-BS2)			Prepared	1: 03/22/21	07:30 Ana	yzed: 03/22	/21 09:38					
NWTPH-Gx (MS) Gasoline Range Organics	0.420	0.0500	0.100	mg/L	1	0.500		84	80-120%			
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recove	ery: 102 % 100 %	Limits: 5	0-150 % 0-150 %	Dilı	ution: 1x					
Duplicate (1030808-DUP1)			Prepared	1: 03/22/21	07:50 Ana	lyzed: 03/22	/21 15:08					
QC Source Sample: Non-SDG (A1	C0729-04)											
Gasoline Range Organics	0.873	0.0500	0.100	mg/L	1		0.862			1	30%	
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recove	ery: 105 % 101 %	Limits: 5	0-150 % 0-150 %	Dilı	ution: 1x					

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Dilution Analyte Result Limit Units Result % REC RPD Limit Amount Limits Limit Notes Batch 1030808 - EPA 5030B Water Blank (1030808-BLK1) Prepared: 03/22/21 07:30 Analyzed: 03/22/21 10:33 EPA 8260D ND 10.0 20.0 ug/L Acetone ND 2.00 Acrylonitrile 1.00 ug/L 1 Benzene ND 0.100 0.200 ug/L 1 Bromobenzene ND 0.250 0.500 1 ug/L Bromochloromethane ND 0.500 1.00 ug/L 1 ND Bromodichloromethane 0.500 1.00 1 ug/L Bromoform ND 0.500 1.00 1 ug/L Bromomethane 5.00 ND 5.00 ug/L 1 2-Butanone (MEK) ND 5.00 10.0 ug/L 1 n-Butylbenzene ND 0.500 1.00 1 ug/L sec-Butylbenzene ND 0.500 1.00 ug/L 1 ND 0.500 tert-Butylbenzene 1.00 1 ug/L Carbon disulfide ND 5.00 10.0 ug/L 1 Carbon tetrachloride ND 0.500 ug/L 1.00 1 Chlorobenzene ND 0.250 0.500 ug/L 1 Chloroethane ND 5.00 5.00 ug/L 1 ---------Chloroform ND 0.500 1.00 ug/L 1 ND 5.00 5.00 Chloromethane 1 ug/L 2-Chlorotoluene ND 0.500 1.00 ug/L 1 4-Chlorotoluene ND 0.500 1.00 ug/L 1 ND Dibromochloromethane 0.500 1.00 ug/L 1 1,2-Dibromo-3-chloropropane ND 2.50 5.00 ug/L 1 1,2-Dibromoethane (EDB) ND 0.250 0.500 ug/L 1 ug/L Dibromomethane ND 0.500 1.00 1 0.500 0.250 1,2-Dichlorobenzene ND ug/L 1 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 1,4-Dichlorobenzene ND 0.250 0.500 ug/L 1 Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 1,1-Dichloroethane ND 0.200 0.400ug/L 1 0.200 1,2-Dichloroethane (EDC) ND 0.400 ug/L 1 1,1-Dichloroethene ND 0.200 0.400 ug/L 1 cis-1,2-Dichloroethene ND 0.200 0.400 ug/L 1 trans-1,2-Dichloroethene ND 0.200 0.400 ug/L 1

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 24 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030808 - EPA 5030B							Wat	er				
Blank (1030808-BLK1)			Prepared	: 03/22/21	07:30 Anal	yzed: 03/22/	21 10:33					
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1							
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1							
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1							
,1-Dichloropropene	ND	0.500	1.00	ug/L	1							
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
rans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
Ethylbenzene	ND	0.250	0.500	ug/L	1							
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1							
2-Hexanone	ND	5.00	10.0	ug/L	1							
Isopropylbenzene	ND	0.500	1.00	ug/L	1							
1-Isopropyltoluene	ND	0.500	1.00	ug/L	1							
Methylene chloride	ND	5.00	10.0	ug/L	1							
1-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1							
Naphthalene	ND	2.00	4.00	ug/L	1							
n-Propylbenzene	ND	0.250	0.500	ug/L	1							
Styrene	ND	0.500	1.00	ug/L	1							
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1							
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1							
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1							
Toluene	ND	0.500	1.00	ug/L	1							
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1							
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1							
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1							
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1							
,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1							
,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
Vinyl chloride	ND	0.200	0.400	ug/L	1							
n,p-Xylene	ND	0.500	1.00	ug/L	1							
o-Xylene	ND	0.250	0.500	ug/L	1							

Surr: 1,4-Difluorobenzene (Surr) Recovery: 101 % Limits: 80-120 % Dilution: 1x

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 25 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

		,	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030808 - EPA 5030B							Wat	er				
Blank (1030808-BLK1)			Prepared	1: 03/22/21	07:30 Anal	lyzed: 03/22	/21 10:33					
Surr: Toluene-d8 (Surr)		Reco	overy: 99 %	Limits: 80	0-120 %	Dilı	ution: 1x					
4-Bromofluorobenzene (Surr)			100 %	80	0-120 %		"					
LCS (1030808-BS1)			Prepared	1: 03/22/21	07:30 Ana	yzed: 03/22	/21 08:53					
EPA 8260D												
Acetone	35.6	10.0	20.0	ug/L	1	40.0		89	80-120%			
Acrylonitrile	19.2	1.00	2.00	ug/L	1	20.0		96	80-120%			
Benzene	18.6	0.100	0.200	ug/L	1	20.0		93	80-120%			
Bromobenzene	19.6	0.250	0.500	ug/L	1	20.0		98	80-120%			
Bromochloromethane	21.9	0.500	1.00	ug/L	1	20.0		109	80-120%			
Bromodichloromethane	21.9	0.500	1.00	ug/L	1	20.0		110	80-120%			
Bromoform	27.2	0.500	1.00	ug/L	1	20.0		136	80-120%			Q-:
Bromomethane	28.1	5.00	5.00	ug/L	1	20.0		141	80-120%			Q-:
2-Butanone (MEK)	35.6	5.00	10.0	ug/L	1	40.0		89	80-120%			
n-Butylbenzene	19.8	0.500	1.00	ug/L	1	20.0		99	80-120%			
sec-Butylbenzene	20.6	0.500	1.00	ug/L	1	20.0		103	80-120%			
tert-Butylbenzene	18.7	0.500	1.00	ug/L	1	20.0		93	80-120%			
Carbon disulfide	18.4	5.00	10.0	ug/L	1	20.0		92	80-120%			
Carbon tetrachloride	23.6	0.500	1.00	ug/L	1	20.0		118	80-120%			
Chlorobenzene	19.7	0.250	0.500	ug/L	1	20.0		98	80-120%			
Chloroethane	20.0	5.00	5.00	ug/L	1	20.0		100	80-120%			
Chloroform	20.5	0.500	1.00	ug/L	1	20.0		103	80-120%			
Chloromethane	12.9	5.00	5.00	ug/L	1	20.0		64	80-120%			Q-5
2-Chlorotoluene	19.7	0.500	1.00	ug/L	1	20.0		98	80-120%			
4-Chlorotoluene	19.6	0.500	1.00	ug/L	1	20.0		98	80-120%			
Dibromochloromethane	23.0	0.500	1.00	ug/L	1	20.0		115	80-120%			
1,2-Dibromo-3-chloropropane	19.2	2.50	5.00	ug/L	1	20.0		96	80-120%			
1,2-Dibromoethane (EDB)	20.3	0.250	0.500	ug/L	1	20.0		101	80-120%			
Dibromomethane	21.0	0.500	1.00	ug/L	1	20.0		105	80-120%			
1,2-Dichlorobenzene	19.8	0.250	0.500	ug/L	1	20.0		99	80-120%			
1,3-Dichlorobenzene	20.2	0.250	0.500	ug/L	1	20.0		101	80-120%			
1,4-Dichlorobenzene	19.7	0.250	0.500	ug/L	1	20.0		98	80-120%			
Dichlorodifluoromethane	16.7	0.500	1.00	ug/L	1	20.0		84	80-120%			
1,1-Dichloroethane	18.3	0.200	0.400	ug/L	1	20.0		92	80-120%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1030808 - EPA 5030B Water LCS (1030808-BS1) Prepared: 03/22/21 07:30 Analyzed: 03/22/21 08:53 1,2-Dichloroethane (EDC) 19.8 0.200 0.400 ug/L 20.0 80-120% 1,1-Dichloroethene 18.7 0.200 0.400 ug/L 1 20.0 94 80-120% ---------20.0 cis-1,2-Dichloroethene 19.3 0.200 0.400 ug/L 1 96 80-120% trans-1,2-Dichloroethene 19.2 0.200 0.400ug/L 1 20.0 96 80-120% 0.250 20.0 92 18.5 0.500 80-120% 1,2-Dichloropropane ug/L 1 20.0 1,3-Dichloropropane 20.0 0.500 1.00 ug/L 1 100 80-120% 2,2-Dichloropropane 18.0 0.5001.00 ug/L 1 20.0 90 80-120% 20.0 100 80-120% 1,1-Dichloropropene 20.0 0.500 1.00 ug/L 1 19.2 0.500 1.00 20.0 cis-1,3-Dichloropropene ug/L 1 96 80-120% trans-1,3-Dichloropropene 19.2 0.500 1.00 ug/L 1 20.0 96 80-120% 20.0 100 Ethylbenzene 20.0 0.250 0.500 80-120% ug/L 1 20.0 97 Hexachlorobutadiene 19.5 2.50 5.00 ug/L 1 80-120% 10.0 40.0 88 80-120% 2-Hexanone 35.1 5.00 ug/L 1 ------Isopropylbenzene 21.3 0.500 1.00 ug/L 1 20.0 106 80-120% 20.9 0.500 1.00 20.0 104 80-120% 4-Isopropyltoluene ug/L 1 Methylene chloride 19.9 5.00 10.0 ug/L 1 20.0 99 80-120% 36.1 5.00 10.0 40.0 90 80-120% 4-Methyl-2-pentanone (MiBK) 1 ug/L Methyl tert-butyl ether (MTBE) 17.3 0.500 1.00 1 20.0 87 80-120% ug/L Naphthalene 16.8 2.00 4.00 20.0 84 80-120% ug/L 1 -----n-Propylbenzene 19.5 0.250 0.500 ug/L 1 20.0 97 80-120% 21.4 0.500 1.00 20.0 107 80-120% Styrene ug/L 1 1,1,1,2-Tetrachloroethane 22.4 0.200 0.400 ug/L 1 20.0 112 80-120% 1,1,2,2-Tetrachloroethane 19.2 0.250 0.500 1 20.0 96 80-120% ug/L Tetrachloroethene (PCE) 21.2 0.200 0.400 ug/L 1 20.0 106 80-120% Toluene 18.6 0.500 1.00 20.0 93 80-120% ug/L 1 ------1,2,3-Trichlorobenzene 20.3 1.00 2.00 ug/L 1 20.0 101 80-120% 1,2,4-Trichlorobenzene 21.0 1.00 2.00 ug/L 20.0 105 80-120% 1 ------1,1,1-Trichloroethane 20.8 0.200 0.400 ug/L 1 20.0 104 80-120% 1.1.2-Trichloroethane 20.7 0.250 0.500 ug/L 1 20.0 104 80-120%

Apex Laboratories

Philip Menterg

Trichloroethene (TCE)

Trichlorofluoromethane

1,2,3-Trichloropropane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

21.1

23.2

19.7

20.2

21.6

0.200

1.00

0.500

0.500

0.500

0.400

2.00

1.00

1.00

1.00

ug/L

ug/L

ug/L

ug/L

ug/L

1

1

1

1

1

20.0

20.0

20.0

20.0

20.0

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

106

116

98

101

108

80-120%

80-120%

80-120%

80-120%

80-120%

Philip Nerenberg, Lab Director

Page 27 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030808 - EPA 5030B							Wat	er				
LCS (1030808-BS1)			Prepared	1: 03/22/21	07:30 Anal	yzed: 03/22	/21 08:53					
Vinyl chloride	18.8	0.200	0.400	ug/L	1	20.0		94	80-120%			
m,p-Xylene	40.6	0.500	1.00	ug/L	1	40.0		102	80-120%			
o-Xylene	19.5	0.250	0.500	ug/L	1	20.0		98	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 98 %	Limits: 80	0-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			95 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			97 %	80	0-120 %		"					
Duplicate (1030808-DUP1)			Prepared	1: 03/22/21	07:50 Anal	lyzed: 03/22	/21 15:08					
OC Source Sample: Non-SDG (A1	C0729-04)											
Acetone	ND	20.0	20.0	ug/L	1		ND				30%	
Acrylonitrile	ND	3.00	3.00	ug/L	1		ND				30%	R-0
Benzene	0.204	0.100	0.200	ug/L	1		0.219			7	30%	
Bromobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromoform	ND	0.500	1.00	ug/L	1		ND				30%	
Bromomethane	ND	5.00	5.00	ug/L	1		ND				30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1		ND				30%	
n-Butylbenzene	0.852	0.500	1.00	ug/L	1		0.802			6	30%	
sec-Butylbenzene	2.70	0.500	1.00	ug/L	1		2.70			0	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1		ND				30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1		ND				30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Chloroethane	ND	5.00	5.00	ug/L	1		ND				30%	
Chloroform	ND	0.500	1.00	ug/L	1		ND				30%	
Chloromethane	ND	5.00	5.00	ug/L	1		ND				30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1		ND				30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1		ND				30%	
Dibromomethane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 28 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source % REC Analyte Result Units Dilution RPD Limit Limit Amount Result Limits Limit Notes Batch 1030808 - EPA 5030B Water **Duplicate (1030808-DUP1)** Prepared: 03/22/21 07:50 Analyzed: 03/22/21 15:08 QC Source Sample: Non-SDG (A1C0729-04) 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 ND 30% ND 0.250 0.500 1,4-Dichlorobenzene ug/L 1 ND 30% ug/L Dichlorodifluoromethane ND 0.500 1.00 1 ND 30% 1,1-Dichloroethane ND 0.200 0.400ug/L 1 ND 30% 1,2-Dichloroethane (EDC) ND 0.200 0.400 1 ND 30% ug/L ---ND 0.200 ND 1,1-Dichloroethene 0.400 ug/L 1 30% cis-1,2-Dichloroethene ND 0.200 0.400ug/L 1 ND 30% trans-1,2-Dichloroethene ND ND 30% 0.200 0.400 ug/L 1 1,2-Dichloropropane ND 0.250 0.500 ug/L 1 ND 30% 1,3-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% 2,2-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 ND 30% 1,1-Dichloropropene ug/L 1 cis-1,3-Dichloropropene ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 ND 30% trans-1,3-Dichloropropene ug/L 1 0.250 ug/L Ethylbenzene 8.58 0.500 1 8.58 0.01 30% Hexachlorobutadiene ND 2.50 5.00 ug/L 1 ND ---30% 2-Hexanone ND 5.00 10.0 ug/L 1 ND 30% 0.500 3.02 2 30% Isopropylbenzene 3.07 1.00 1 ug/L 0.963 0.500 4 4-Isopropyltoluene 1.00 ug/L 1 1.00 30% 10.0 Methylene chloride ND 5.00 ND 30% ug/L 1 4-Methyl-2-pentanone (MiBK) ND ND 5.00 10.0 ug/L 1 30% Methyl tert-butyl ether (MTBE) ND 0.500 1.00 ug/L 1 ND ---30% Naphthalene 10.5 2.00 4.00 ug/L 1 9.75 7 30% 0.500 4.20 30% n-Propylbenzene 4.19 0.250 ug/L 1 0.1 ND 0.500 1.00 30% Styrene ug/L 1 ND ND 30% 1,1,1,2-Tetrachloroethane 0.200 0.400 ND ug/L 1 ---1,1,2,2-Tetrachloroethane ND 0.250 0.500 ND 30% ug/L 1 Tetrachloroethene (PCE) ND ND 0.200 0.400 ug/L 1 ---------30% 0.657 0.500 1.00 ug/L 1 0.618 6 30% J 1,2,3-Trichlorobenzene ND 1.00 2.00 ND 30% ug/L 1 ---1,2,4-Trichlorobenzene ND 1.00 2.00 1 ND 30% ug/L ND 0.200 0.400 1,1,1-Trichloroethane ND 30% ug/L 1 1,1,2-Trichloroethane ND 0.250 0.500 ug/L 1 ND 30%

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 29 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Trichlorofluoromethane			,	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Description Description	Analyte	Result			Units	Dilution			% REC		RPD		Notes
Trichlorochtene (TCE) ND 0.200 0.400 ug/L 1 ND 30%	Batch 1030808 - EPA 5030B							Wat	er				
Trichloroethene (TCE) ND 0.200 0.400 ug/L 1 ND 30% Trichlorothuoromethane ND 1.00 2.00 ug/L 1 ND 30% 1.2,3-Trichloropropane ND 0.500 1.00 ug/L 1 ND 30% 1.2,3-Trichloropropane ND 0.500 1.00 ug/L 1 ND 30% 1.2,4-Trimethylbenzene 8.92 0.500 1.00 ug/L 1 ND 30% 1.3,5-Trimethylbenzene 45.6 0.500 1.00 ug/L 1 ND 1 30% 1.3,5-Trimethylbenzene ND 0.200 0.400 ug/L 1 ND 1 30% 1.3,5-Trimethylbenzene ND 0.200 0.400 ug/L 1 ND 1 30% 0.500 0.500 ug/L 1 0.841 5 30% 0.500 0.500 0.500 ug/L 1 0.841 0.841 5 30% 0.500	Duplicate (1030808-DUP1)			Prepared	d: 03/22/21	07:50 Anal	lyzed: 03/22	/21 15:08					
Trichlorofluoromethane	QC Source Sample: Non-SDG (A1	C0729-04)											
1,2,3-Trichloropropane ND 0,500 1.00 ug/L 1 ND 30% 1.2,4-Trimethylbenzene 8,92 0,500 1.00 ug/L 1 8,79 2 30% 1.2,4-Trimethylbenzene 45,6 0,500 1.00 ug/L 1 8,79 2 30% NV 1,3,5-Trimethylbenzene 45,6 0,500 1.00 ug/L 1 45,1 1 30% NV 1,3,5-Trimethylbenzene ND 0,200 0,400 ug/L 1 ND 1 30% NV 1,10 NV 1	Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1		ND				30%	
1,2,4-Trimethylbenzene	Trichlorofluoromethane	ND	1.00	2.00	ug/L	1		ND				30%	
1,3,5-Trimethylbenzene	1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1		ND				30%	
Vinyl chloride	1,2,4-Trimethylbenzene	8.92	0.500	1.00	ug/L	1		8.79			2	30%	
mp-Xylene	1,3,5-Trimethylbenzene	45.6	0.500	1.00	ug/L	1		45.1			1	30%	
o-Xylene	Vinyl chloride	ND	0.200	0.400	ug/L	1		ND				30%	
Natrix Spike (1030808-MS1) Prepared: 03/22/21 07:50 Analyzed: 03/22/21 20:05	m,p-Xylene	10.1	0.500	1.00	ug/L	1		9.95			1	30%	
Matrix Spike (1030808-MS1) Prepared: 03/22/21 07:50 Analyzed: 03/22/21 20:05	o-Xylene	0.886	0.250	0.500	ug/L	1		0.841			5	30%	
Matrix Spike (1030808-MS1) Prepared: 03/22/21 07:50 Analyzed: 03/22/21 20:05	Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 99 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Matrix Spike (1030808-MS1) Prepared: 03/22/21 07:50 Analyzed: 03/22/21 20:05	Toluene-d8 (Surr)			98 %	80	0-120 %		"					
OC Source Sample: Non-SDG (A1C0767-05) EPA 8260D Acctone 36.7 10.0 20.0 ug/L 1 40.0 ND 92 39-160% Acrylonitrile 18.6 1.00 2.00 ug/L 1 20.0 ND 93 63-135% Benzene 19.4 0.100 0.200 ug/L 1 20.0 ND 97 79-120% Bromobenzene 20.5 0.250 0.500 ug/L 1 20.0 ND 103 80-120% Bromochloromethane 22.6 0.500 1.00 ug/L 1 20.0 ND 113 78-123% Bromofichloromethane 22.4 0.500 1.00 ug/L 1 20.0 ND 112 79-125% Bromofichloromethane 27.3 0.500 1.00 ug/L 1 20.0 <td>4-Bromofluorobenzene (Surr)</td> <td></td> <td></td> <td>96 %</td> <td>80</td> <td>0-120 %</td> <td></td> <td>"</td> <td></td> <td></td> <td></td> <td></td> <td></td>	4-Bromofluorobenzene (Surr)			96 %	80	0-120 %		"					
Acetone 36.7 10.0 20.0 ug/L 1 40.0 ND 92 39-160% Acrylonitrile 18.6 1.00 2.00 ug/L 1 20.0 ND 93 63-135% Benzene 19.4 0.100 0.200 ug/L 1 20.0 ND 97 79-120% Bromobenzene 20.5 0.250 0.500 ug/L 1 20.0 ND 103 80-120% Bromochloromethane 22.6 0.500 1.00 ug/L 1 20.0 ND 113 78-123% Bromodichloromethane 22.4 0.500 1.00 ug/L 1 20.0 ND 112 79-125% Bromoform 27.3 0.500 1.00 ug/L 1 20.0 ND 137 66-130% Bromomethane 32.0 5.00 5.00 ug/L 1 20.0 ND 160 53-141% 2-Butanone (MEK) 35.6 5.00 10.0 ug/L 1 20.0 ND 89 56-143% n-Butylbenzene 18.9 0.500 1.00 ug/L 1 20.0 ND 95 75-128% brett-Butylbenzene 20.7 0.500 1.00 ug/L 1 20.0 ND 96 78-124% tert-Butylbenzene 19.2 0.500 1.00 ug/L 1 20.0 ND 96 64-133% Carbon disulfide 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 96 64-133% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chlorobethane 22.3 5.00 5.00 ug/L 1 20.0 ND 102 80-120% Chlorobethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%	<u> </u>	<u>C0767-05)</u>											
Acrylonitrile 18.6 1.00 2.00 ug/L 1 20.0 ND 93 63-135% Benzene 19.4 0.100 0.200 ug/L 1 20.0 ND 97 79-120% Bromobenzene 20.5 0.250 0.500 ug/L 1 20.0 ND 103 80-120% Bromochloromethane 22.6 0.500 1.00 ug/L 1 20.0 ND 113 78-123% Bromodichloromethane 22.4 0.500 1.00 ug/L 1 20.0 ND 112 79-125% Bromoform 27.3 0.500 1.00 ug/L 1 20.0 ND 137 66-130% Bromomethane 32.0 5.00 5.00 ug/L 1 20.0 ND 137 66-130% Bromomethane 32.0 5.00 5.00 ug/L 1 20.0 ND 160 53-141% 2-Butanone (MEK) 35.6 5.00 10.0 ug/L 1 40.0 ND 89 56-143% n-Butylbenzene 18.9 0.500 1.00 ug/L 1 20.0 ND 95 75-128% sec-Butylbenzene 20.7 0.500 1.00 ug/L 1 20.0 ND 96 78-124% tert-Butylbenzene 19.2 0.500 1.00 ug/L 1 20.0 ND 96 78-124% Carbon disulfide 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 96 64-133% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chlorotethane 22.3 5.00 5.00 ug/L 1 20.0 ND 102 80-120% Chlorotethane 22.3 5.00 5.00 ug/L 1 20.0 ND 102 80-120% Chlorotethane 22.3 5.00 5.00 ug/L 1 20.0 ND 102 80-120% Chlorotethane 22.3 5.00 5.00 ug/L 1 20.0 ND 102 80-120%		267	10.0	20.0	/T	1	40.0	ND	02	20.1600/			
Benzene 19.4 0.100 0.200 ug/L 1 20.0 ND 97 79-120% Bromobenzene 20.5 0.250 0.500 ug/L 1 20.0 ND 103 80-120% Bromochloromethane 22.6 0.500 1.00 ug/L 1 20.0 ND 113 78-123% Bromodichloromethane 22.4 0.500 1.00 ug/L 1 20.0 ND 112 79-125% Bromoform 27.3 0.500 1.00 ug/L 1 20.0 ND 137 66-130% Bromomethane 32.0 5.00 5.00 ug/L 1 20.0 ND 160 53-141% 2-Butanone (MEK) 35.6 5.00 10.0 ug/L 1 40.0 ND 89 56-143% n-Butylbenzene 18.9 0.500 1.00 ug/L 1 20.0 ND 95 75-128% sec-Butylbenzene 20.7 0.500 1.00 ug/L 1 20.0 ND 95 75-128% tert-Butylbenzene 19.2 0.500 1.00 ug/L 1 20.0 ND 96 78-124% Carbon disulfide 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 96 64-133% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 102 80-120% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 102 80-120% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%					_								
Bromobenzene 20.5 0.250 0.500 ug/L 1 20.0 ND 103 80-120% Bromochloromethane 22.6 0.500 1.00 ug/L 1 20.0 ND 113 78-123% Bromodichloromethane 22.4 0.500 1.00 ug/L 1 20.0 ND 112 79-125% Bromoform 27.3 0.500 1.00 ug/L 1 20.0 ND 137 66-130% Bromomethane 32.0 5.00 5.00 ug/L 1 20.0 ND 160 53-141% 2-Butanone (MEK) 35.6 5.00 10.0 ug/L 1 40.0 ND 89 56-143% n-Butylbenzene 18.9 0.500 1.00 ug/L 1 20.0 ND 95 75-128% sec-Butylbenzene 20.7 0.500 1.00 ug/L 1 20.0 ND 104 77-126% tert-Butylbenzene 19.2 0.500 1.00 ug/L 1 20.0 ND 96 78-124% tert-Butylbenzene 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon disulfide 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 102 80-120% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chlorobenzene 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%	•				·								
Bromochloromethane 22.6 0.500 1.00 ug/L 1 20.0 ND 113 78-123% Bromodichloromethane 22.4 0.500 1.00 ug/L 1 20.0 ND 112 79-125% Bromoform 27.3 0.500 1.00 ug/L 1 20.0 ND 137 66-130% Bromomethane 32.0 5.00 5.00 ug/L 1 20.0 ND 160 53-141% 2-Butanone (MEK) 35.6 5.00 10.0 ug/L 1 40.0 ND 89 56-143% n-Butylbenzene 18.9 0.500 1.00 ug/L 1 20.0 ND 95 75-128% sec-Butylbenzene 20.7 0.500 1.00 ug/L 1 20.0 ND 96 78-124% <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					_								
Bromodichloromethane 22.4 0.500 1.00 ug/L 1 20.0 ND 112 79-125% Bromoform 27.3 0.500 1.00 ug/L 1 20.0 ND 137 66-130% Bromomethane 32.0 5.00 5.00 ug/L 1 20.0 ND 160 53-141% 2-Butanone (MEK) 35.6 5.00 10.0 ug/L 1 40.0 ND 89 56-143% 2-Butanone (MEK) 35.6 5.00 10.0 ug/L 1 20.0 ND 89 56-143% n-Butylbenzene 18.9 0.500 1.00 ug/L 1 20.0 ND 95 75-128% sec-Butylbenzene 20.7 0.500 1.00 ug/L 1 20.0 ND 96 78-124% tert-Butylbenzene 19.2<					·								
Bromoform 27.3 0.500 1.00 ug/L 1 20.0 ND 137 66-130% Bromomethane 32.0 5.00 5.00 ug/L 1 20.0 ND 160 53-141% 2-Butanone (MEK) 35.6 5.00 10.0 ug/L 1 40.0 ND 89 56-143% n-Butylbenzene 18.9 0.500 1.00 ug/L 1 20.0 ND 95 75-128% sec-Butylbenzene 20.7 0.500 1.00 ug/L 1 20.0 ND 95 75-128% tert-Butylbenzene 19.2 0.500 1.00 ug/L 1 20.0 ND 96 78-124% tert-Butylbenzene 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon disulfide 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 96 64-133% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chloroethane					_								
Bromomethane 32.0 5.00 5.00 ug/L 1 20.0 ND 160 53-141% 2-Butanone (MEK) 35.6 5.00 10.0 ug/L 1 40.0 ND 89 56-143% n-Butylbenzene 18.9 0.500 1.00 ug/L 1 20.0 ND 95 75-128% sec-Butylbenzene 20.7 0.500 1.00 ug/L 1 20.0 ND 104 77-126% tert-Butylbenzene 19.2 0.500 1.00 ug/L 1 20.0 ND 96 78-124% Carbon disulfide 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 96 64-133% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%					Č								Q-5
2-Butanone (MEK) 35.6 5.00 10.0 ug/L 1 40.0 ND 89 56-143% n-Butylbenzene 18.9 0.500 1.00 ug/L 1 20.0 ND 95 75-128% sec-Butylbenzene 20.7 0.500 1.00 ug/L 1 20.0 ND 104 77-126% tert-Butylbenzene 19.2 0.500 1.00 ug/L 1 20.0 ND 96 78-124% Carbon disulfide 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 96 64-133% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138% Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%					_								Q-5
n-Butylbenzene 18.9 0.500 1.00 ug/L 1 20.0 ND 95 75-128% sec-Butylbenzene 20.7 0.500 1.00 ug/L 1 20.0 ND 104 77-126% tert-Butylbenzene 19.2 0.500 1.00 ug/L 1 20.0 ND 96 78-124% Carbon disulfide 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 122 72-136% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%					_								Q-3.
sec-Butylbenzene 20.7 0.500 1.00 ug/L 1 20.0 ND 104 77-126% tert-Butylbenzene 19.2 0.500 1.00 ug/L 1 20.0 ND 96 78-124% Carbon disulfide 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 122 72-136% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%	· · · · ·				_								
tert-Butylbenzene 19.2 0.500 1.00 ug/L 1 20.0 ND 96 78-124% Carbon disulfide 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 122 72-136% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%	•				·								
Carbon disulfide 19.2 5.00 10.0 ug/L 1 20.0 ND 96 64-133% Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 122 72-136% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%	•				_								
Carbon tetrachloride 24.5 0.500 1.00 ug/L 1 20.0 ND 122 72-136% Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%	•				_								
Chlorobenzene 20.3 0.250 0.500 ug/L 1 20.0 ND 102 80-120% Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%													
Chloroethane 22.3 5.00 5.00 ug/L 1 20.0 ND 112 60-138%													
					_								
Chrotoform 22.1 0.200 1.00 ug/L 1 20.0 0.747 107 /7-12470													
Chloromethane 13.5 5.00 5.00 ug/L 1 20.0 ND 67 50-139%					_								Q-54

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1030808 - EPA 5030B Water Matrix Spike (1030808-MS1) Prepared: 03/22/21 07:50 Analyzed: 03/22/21 20:05 QC Source Sample: Non-SDG (A1C0767-05) 2-Chlorotoluene 20.4 0.500 1.00 ug/L 1 20.0 ND 102 79-122% 19.9 0.500 1.00 20.0 4-Chlorotoluene ug/L 1 ND 99 78-122% ug/L Dibromochloromethane 22.6 0.500 1.00 1 20.0 ND 113 74-126% 1,2-Dibromo-3-chloropropane 18.6 2.50 5.00 ug/L 1 20.0 ND 93 62-128% 1,2-Dibromoethane (EDB) 20.4 0.250 0.500 1 20.0 ND 102 77-121% ug/L Dibromomethane 21.2 0.500 1.00 20.0 ND 106 79-123% ug/L 1 1,2-Dichlorobenzene 19.8 0.250 0.500 ug/L 1 20.0 ND 99 80-120% 20.2 0.500 20.0 ND 101 80-120% 1.3-Dichlorobenzene 0.250 ug/L 1 1,4-Dichlorobenzene 19.9 0.250 0.500 ug/L 1 20.0 ND 100 79-120% Dichlorodifluoromethane 17.3 0.500 1.00 ug/L 1 20.0 ND 86 32-152% 1,1-Dichloroethane 18.8 0.200 0.400 ug/L 1 20.0 ND 94 77-125% 1,2-Dichloroethane (EDC) 20.8 0.200 0.400 20.0 ND 104 73-128% ug/L 1 20.0 99 1,1-Dichloroethene 19.8 0.200 0.400 ug/L 1 ND 71-131% 20.0 100 cis-1,2-Dichloroethene 20.0 0.200 0.400 ND 78-123% ug/L 1 0.200 ug/L trans-1,2-Dichloroethene 20.3 0.400 1 20.0 ND 101 75-124% 1,2-Dichloropropane 19.0 0.250 0.500 ug/L 1 20.0 ND 95 78-122% ___ 1,3-Dichloropropane 20.1 0.500 1.00 ug/L 1 20.0 ND 100 80-120% 15.8 0.500 20.0 ND 79 60-139% 2,2-Dichloropropane 1.00 1 ug/L 20.0 ND 107 79-125% 1,1-Dichloropropene 21.4 0.500 1.00 ug/L 1 0.500 1.00 20.0 cis-1,3-Dichloropropene 18.1 ND 91 75-124% ug/L 1 trans-1,3-Dichloropropene 0.500 20.0 ND 91 73-127% 18.3 1.00 ug/L 1 0.250 Ethylbenzene 20.6 0.500 ug/L 1 20.0 ND 103 79-121% Hexachlorobutadiene 19.5 2.50 5.00 ug/L 1 20.0 ND 97 66-134% 2-Hexanone 34.8 40.0 ND 87 57-139% 5.00 10.0 ug/L 1 21.8 0.500 1.00 20.0 ND 109 72-131% Isopropylbenzene ug/L 1 20.0 20.5 0.500 1.00 ND 102 77-127% 4-Isopropyltoluene ug/L 1 Methylene chloride 20.5 5.00 10.0 20.0 ND 103 74-124% ug/L 1 40.0 ND 89 67-130% 4-Methyl-2-pentanone (MiBK) 35.6 5.00 10.0 ug/L 1 Methyl tert-butyl ether (MTBE) 17.1 0.500 1.00 ug/L 1 20.0 ND 86 71-124% Naphthalene 15.4 2.00 4.00 1 20.0 ND 77 61-128% ug/L n-Propylbenzene 19.9 0.250 0.500 1 20.0 ND 100 76-126% ug/L 19.2 0.500 1.00 20.0 ND Styrene 1 96 78-123% ug/L ---1,1,1,2-Tetrachloroethane 22.5 0.200 0.400 ug/L 1 20.0 ND 113 78-124%

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 31 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

		•	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030808 - EPA 5030B							Wat	er				
Matrix Spike (1030808-MS1)			Prepared	: 03/22/21	07:50 Ana	yzed: 03/22	/21 20:05					
QC Source Sample: Non-SDG (A1	C0767-05)											
1,1,2,2-Tetrachloroethane	19.0	0.250	0.500	ug/L	1	20.0	ND	95	71-121%			
Tetrachloroethene (PCE)	21.9	0.200	0.400	ug/L	1	20.0	ND	109	74-129%			
Toluene	19.3	0.500	1.00	ug/L	1	20.0	ND	96	80-121%			
1,2,3-Trichlorobenzene	18.3	1.00	2.00	ug/L	1	20.0	ND	91	69-129%			
1,2,4-Trichlorobenzene	19.2	1.00	2.00	ug/L	1	20.0	ND	96	69-130%			
1,1,1-Trichloroethane	21.6	0.200	0.400	ug/L	1	20.0	ND	108	74-131%			
1,1,2-Trichloroethane	20.5	0.250	0.500	ug/L	1	20.0	ND	103	80-120%			
Trichloroethene (TCE)	27.9	0.200	0.400	ug/L	1	20.0	5.78	111	79-123%			
Trichlorofluoromethane	25.0	1.00	2.00	ug/L	1	20.0	ND	125	65-141%			
,2,3-Trichloropropane	19.2	0.500	1.00	ug/L	1	20.0	ND	96	73-122%			
,2,4-Trimethylbenzene	19.7	0.500	1.00	ug/L	1	20.0	ND	99	76-124%			
,3,5-Trimethylbenzene	21.5	0.500	1.00	ug/L	1	20.0	ND	108	75-124%			
Vinyl chloride	20.2	0.200	0.400	ug/L	1	20.0	ND	101	58-137%			
n,p-Xylene	41.7	0.500	1.00	ug/L	1	40.0	ND	104	80-121%			
o-Xylene	19.9	0.250	0.500	ug/L	1	20.0	ND	100	78-122%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 99 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			94 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			96 %	80	0-120 %		"					
Matrix Spike Dup (1030808-M			Prepared	: 03/22/21	07:50 Ana	lyzed: 03/22	/21 20:32					
QC Source Sample: Non-SDG (A1 Acetone	<u>C0767-05)</u> 37.6	10.0	20.0	110/J	1	40.0	ND	94	39-160%	2	30%	
		1.00	2.00	ug/L	1							
Acrylonitrile Benzene	19.3 20.5	0.100		ug/L	1	20.0	ND ND	97 102	63-135% 79-120%	4 5	30% 30%	
		0.100	0.200 0.500	ug/L	1	20.0						
Bromobenzene	21.5			ug/L	1	20.0	ND ND	108	80-120%	5	30%	
Bromochloromethane	23.8	0.500	1.00	ug/L	1	20.0	ND	119	78-123%	5	30%	
Bromodichloromethane	23.3	0.500	1.00	ug/L	1	20.0	ND	117	79-125%	4	30%	_
Bromoform	28.7	0.500	1.00	ug/L	1	20.0	ND	144	66-130%	5	30%	Q
Bromomethane (ACEV)	33.3	5.00	5.00	ug/L	1	20.0	ND	166	53-141%	4	30%	Q
2-Butanone (MEK)	37.2	5.00	10.0	ug/L	1	40.0	ND	93	56-143%	4	30%	
n-Butylbenzene	20.5	0.500	1.00	ug/L	1	20.0	ND	103	75-128%	8	30%	
sec-Butylbenzene	22.3	0.500	1.00	ug/L	1	20.0	ND	111	77-126%	7	30%	
tert-Butylbenzene	20.1	0.500	1.00	ug/L	1	20.0	ND	100	78-124%	4	30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1030808 - EPA 5030B Water Matrix Spike Dup (1030808-MSD1) Prepared: 03/22/21 07:50 Analyzed: 03/22/21 20:32 QC Source Sample: Non-SDG (A1C0767-05) Carbon disulfide 20.6 5.00 10.0 ug/L 1 20.0 ND 103 64-133% 7 30% 25.8 0.500 1.00 20.0 ND Carbon tetrachloride ug/L 1 129 72-136% 5 30% Chlorobenzene 21.5 0.250 0.500 ug/L 1 20.0 ND 107 80-120% 5 30% Chloroethane 24.0 5.00 5.00 ug/L 1 20.0 ND 120 60-138% 7 30% Chloroform 23.0 0.500 1.00 1 20.0 0.749 111 79-124% 4 30% ug/L 20.0 ND 73 50-139% 8 Q-54d Chloromethane 14.6 5.00 5.00 ug/L 1 30% ug/L 2-Chlorotoluene 21.5 0.500 1.00 1 20.0 ND 108 79-122% 5 30% 4-Chlorotoluene 20.0 ND 105 78-122% 30% 21.0 0.500 1.00 ug/L 1 6 Dibromochloromethane 24.5 0.500 1.00 ug/L 1 20.0 ND 122 74-126% 8 30% 1,2-Dibromo-3-chloropropane 19.5 2.50 5.00 ug/L 1 20.0 ND 98 62-128% 5 30% 1,2-Dibromoethane (EDB) 21.3 0.250 0.500 ug/L 1 20.0 ND 106 77-121% 4 30% Dibromomethane 22.3 0.500 1.00 20.0 ND 112 79-123% 5 ug/L 1 30% 20.0 80-120% 7 1,2-Dichlorobenzene 21.1 0.250 0.500 ug/L 1 ND 106 30% 20.0 109 7 30% 21.7 0.250 0.500 ND 80-120% 1,3-Dichlorobenzene ug/L 1 ug/L 1,4-Dichlorobenzene 21.1 0.250 0.500 1 20.0 ND 106 79-120% 6 30% Dichlorodifluoromethane 18.7 0.500 1.00 ug/L 1 20.0 ND 93 32-152% 8 30% 1,1-Dichloroethane 20.0 0.200 0.400 ug/L 1 20.0 ND 100 77-125% 6 30% 21.4 0.200 0.400 20.0 ND 107 73-128% 30% 1,2-Dichloroethane (EDC) 1 3 ug/L 20.0 ND 103 71-131% 1,1-Dichloroethene 20.6 0.200 0.400 ug/L 1 4 30% 0.200 0.400 20.0 cis-1,2-Dichloroethene 20.9 ND 104 78-123% 4 30% ug/L 1 trans-1,2-Dichloroethene 21.2 0.200 0.400 20.0 ND 106 75-124% 5 ug/L 1 30% 0.250 1,2-Dichloropropane 20.0 0.500 ug/L 1 20.0 ND 100 78-122% 5 30% 1,3-Dichloropropane 21.3 0.500 1.00 ug/L 1 20.0 ND 106 80-120% 6 30% 16.4 20.0 ND 82 60-139% 4 30% 2,2-Dichloropropane 0.500 1.00 ug/L 1 22.2 0.500 1.00 20.0 111 79-125% 3 30% 1,1-Dichloropropene ug/L 1 ND 18.8 20.0 94 75-124% 0.500 1.00 ND 4 30% cis-1,3-Dichloropropene ug/L 1 trans-1,3-Dichloropropene 19.7 0.500 1.00 20.0 ND 98 73-127% 7 30% ug/L 1 20.0 ND 108 79-121% Ethylbenzene 21.6 0.250 0.500 ug/L 1 5 30% Hexachlorobutadiene 20.8 2.50 5.00 ug/L 1 20.0 ND 104 66-134% 6 30% 2-Hexanone 36.4 5.00 10.0 1 40.0 ND 91 57-139% 4 30% ug/L Isopropylbenzene 23.0 0.500 1.00 1 20.0 ND 115 72-131% 5 30% ug/L 0.500 1.00 20.0 ND 7 4-Isopropyltoluene 22.0 1 110 77-127% 30% ug/L Methylene chloride 21.2 5.00 10.0 ug/L 1 20.0 ND 106 74-124% 3 30%

Apex Laboratories

Philip Menherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 33 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source % REC Analyte Result Limit Units Dilution RPD Limit Amount Result Limits Limit Notes Batch 1030808 - EPA 5030B Water Matrix Spike Dup (1030808-MSD1) Prepared: 03/22/21 07:50 Analyzed: 03/22/21 20:32 QC Source Sample: Non-SDG (A1C0767-05) 4-Methyl-2-pentanone (MiBK) 37.5 5.00 10.0 ug/L 1 40.0 ND 94 67-130% 5 30% Methyl tert-butyl ether (MTBE) 0.500 1.00 20.0 71-124% 18.2 ug/L 1 ND 91 6 30% 61-128% Naphthalene 16.8 2.00 4.00 ug/L 1 20.0 ND 84 9 30% n-Propylbenzene 21.2 0.250 0.500 ug/L 1 20.0 ND 106 76-126% 6 30% Styrene 20.6 0.500 1.00 ug/L 1 20.0 ND 103 78-123% 7 30% 1,1,1,2-Tetrachloroethane 23.7 0.200 0.400 20.0 ND 78-124% ug/L 1 118 5 30% 1,1,2,2-Tetrachloroethane 20.0 0.250 0.500 ug/L 1 20.0 ND 100 71-121% 5 30% Tetrachloroethene (PCE) 23.4 0.400 20.0 ND 74-129% 7 30% 0.200 ug/L 1 117 20.0 Toluene 20.2 0.500 1.00 ug/L 1 ND 101 80-121% 5 30% 1,2,3-Trichlorobenzene 19.7 1.00 2.00 ug/L 1 20.0 ND 99 69-129% 8 30% 1,2,4-Trichlorobenzene 20.9 1.00 2.00 ug/L 1 20.0 ND 104 69-130% 8 30% 0.400 1,1,1-Trichloroethane 22.6 0.200 20.0 ND 74-131% ug/L 1 113 4 30% 0.250 0.500 20.0 ND 80-120% 1,1,2-Trichloroethane 21.9 ug/L 1 110 6 30% 20.0 Trichloroethene (TCE) 29.6 0.200 0.400 5.78 119 79-123% 30% ug/L 1 6 65-141% Trichlorofluoromethane 26.1 1.00 2.00 ug/L 1 20.0 ND 130 4 30% 1,2,3-Trichloropropane 20.2 0.500 1.00 ug/L 1 20.0 ND 101 73-122% 5 30% 1,2,4-Trimethylbenzene 21.3 0.500 1.00 ug/L 1 20.0 ND 107 76-124% 8 30% 1,3,5-Trimethylbenzene 22.7 0.500 20.0 ND 75-124% 30% 1.00 114 5 ug/L 1 21.5 Vinyl chloride 0.200 20.0 ND 108 58-137% 0.400 ug/L 1 6 30% 0.500 1.00 40.0 30% m,p-Xylene 44.0 ND 110 80-121% 5 ug/L 1 o-Xylene 0.250 0.500 20.0 ND 105 78-122% 30% 21.1 ug/L Surr: 1,4-Difluorobenzene (Surr) Recovery: 99 % Limits: 80-120 % Dilution: 1x 95 % Toluene-d8 (Surr) 80-120 % 4-Bromofluorobenzene (Surr) 96% 80-120 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 34 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

		Vol	atile Orga	nic Com	pounds b	y EPA 826	SOD SIM					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1031037 - EPA 5030B							Wat	er				
Blank (1031037-BLK1)			Prepared	: 03/26/21	08:00 Anal	lyzed: 03/26	/21 11:59					
EPA 8260D SIM												
Benzene	ND	0.0500	0.100	ug/L	1							
Toluene	ND	0.0500	0.100	ug/L	1							
Ethylbenzene	ND	0.0500	0.100	ug/L	1							
n,p-Xylene	ND	0.100	0.200	ug/L	1							
o-Xylene	ND	0.0500	0.100	ug/L	1							
,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1							
,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1							
Chloroform	ND	0.0500	0.100	ug/L	1							
,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1							
,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1							
,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1							
,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1							
,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
eis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
rans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1							
eis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1							
rans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1							
,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1							
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1							
,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1							
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1							
,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1							
Vinyl chloride	ND	0.0100	0.0200	ug/L	1							
Surr: 1,4-Difluorobenzene (Surr)		Recove	ery: 107 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			96 %		0-120 %		"					
4-Bromofluorobenzene (Surr)			95 %	80	0-120 %		"					
LCS (1031037-BS1)			Prepared	: 03/26/21	08:00 Anal	lyzed: 03/26	/21 11:25					
EPA 8260D SIM			1									
Benzene	0.216	0.0500	0.100	ug/L	1	0.200		108	80-120%			
Foluene	0.182	0.0500	0.100	ug/L ug/L	1	0.200		91	80-120%	_		

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Meinberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte Re Batch 1031037 - EPA 5030B LCS (1031037-BS1)	esult	Detection Limit	Reporting									
			Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
I CS (1031037 DS1)							Wate	er				
LC3 (1031037-D31)			Prepared	: 03/26/21	08:00 Ana	lyzed: 03/26/	/21 11:25					
Ethylbenzene 0	0.178	0.0500	0.100	ug/L	1	0.200		89	80-120%			
m,p-Xylene 0	0.339	0.100	0.200	ug/L	1	0.400		85	80-120%			
o-Xylene 0	0.175	0.0500	0.100	ug/L	1	0.200		87	80-120%			
1,2,4-Trimethylbenzene 0	0.175	0.0500	0.100	ug/L	1	0.200		87	80-120%			
1,3,5-Trimethylbenzene 0	0.180	0.0500	0.100	ug/L	1	0.200		90	80-120%			
Chloroform 0	0.207	0.0500	0.100	ug/L	1	0.200		103	80-120%			
1,2-Dibromo-3-chloropropane 0	0.229	0.100	0.200	ug/L	1	0.200		114	80-120%			
1,2-Dibromoethane (EDB)	0.190	0.0100	0.0200	ug/L	1	0.200		95	80-120%			
1,1-Dichloroethane 0	0.192	0.0100	0.0200	ug/L	1	0.200		96	80-120%			
1,2-Dichloroethane (EDC) 0	0.230	0.0100	0.0200	ug/L	1	0.200		115	80-120%			
1,1-Dichloroethene 0	0.191	0.0100	0.0200	ug/L	1	0.200		96	80-120%			
cis-1,2-Dichloroethene 0	0.197	0.0100	0.0200	ug/L	1	0.200		99	80-120%			
trans-1,2-Dichloroethene 0	0.194	0.0100	0.0200	ug/L	1	0.200		97	80-120%			
1,2-Dichloropropane 0	0.242	0.0100	0.0200	ug/L	1	0.200		121	80-120%			Q-5
cis-1,3-Dichloropropene 0	0.165	0.0100	0.0200	ug/L	1	0.200		82	80-120%			
trans-1,3-Dichloropropene 0	0.180	0.0100	0.0200	ug/L	1	0.200		90	80-120%			
Methyl tert-butyl ether (MTBE) 0	0.212	0.0100	0.0200	ug/L	1	0.200		106	80-120%			
1,1,2,2-Tetrachloroethane 0	0.239	0.0100	0.0200	ug/L	1	0.200		120	80-120%			
Tetrachloroethene (PCE) 0	0.172	0.0100	0.0200	ug/L	1	0.200		86	80-120%			
1,1,2-Trichloroethane 0	0.205	0.0100	0.0200	ug/L	1	0.200		103	80-120%			
Trichloroethene (TCE) 0	0.228	0.0100	0.0200	ug/L	1	0.200		114	80-120%			
1,2,3-Trichloropropane 0	0.227	0.0500	0.100	ug/L	1	0.200		114	80-120%			
Vinyl chloride 0	0.257	0.0100	0.0200	ug/L	1	0.200		128	80-120%			Q-5
Surr: 1,4-Difluorobenzene (Surr)		Recove	ery: 107 %	Limits: 80	120 %	Dilu	ution: 1x					
Toluene-d8 (Surr)			94 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			93 %	80	-120 %		"					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 36 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

		Vol	atile Orga	nic Com	pounds b	y EPA 826	OD SIM					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1031037 - EPA 5030B							Wat	er				
Duplicate (1031037-DUP1)			Prepared	1: 03/26/21	11:14 Ana	lyzed: 03/26	/21 15:07					
QC Source Sample: SW-2(031821)	(A1C0750	-03)										
o-Xylene	ND	0.0500	0.100	ug/L	1		ND				30%	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1		ND				30%	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1		ND				30%	
Chloroform	ND	0.0500	0.100	ug/L	1		ND				30%	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1		ND				30%	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1		ND				30%	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1		ND				30%	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1		ND				30%	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1		ND				30%	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1		ND				30%	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1		ND				30%	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1		ND				30%	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1		ND				30%	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recove	ry: 102 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			95 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			95 %	80	0-120 %		"					
Matrix Spike (1031037-MS1)			Prepared	1: 03/26/21	11:14 Ana	lyzed: 03/26	/21 15:34					
QC Source Sample: SW-2(031821)	(A1C0750	-03)										
EPA 8260D SIM		_										
Benzene	0.243	0.0500	0.100	ug/L	1	0.200	ND	121	79-120%			(
Toluene	0.220	0.0500	0.100	ug/L	1	0.200	ND		80-121%			
Ethylbenzene	0.196	0.0500	0.100	ug/L	1	0.200	ND		79-121%			
m,p-Xylene	0.392	0.100	0.200	ug/L	1	0.400	ND		80-121%			
o-Xylene	0.184	0.0500	0.100	ug/L	1	0.200	ND		78-122%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM Detection % REC RPD Reporting Spike Source % REC Analyte Result Limit Units Dilution RPD Limit Amount Result Limits Limit Notes Batch 1031037 - EPA 5030B Water Matrix Spike (1031037-MS1) Prepared: 03/26/21 11:14 Analyzed: 03/26/21 15:34 QC Source Sample: SW-2(031821) (A1C0750-03) 1,2,4-Trimethylbenzene 0.198 0.0500 0.100 ug/L 1 0.200 ND 99 76-124% 75-124% 0.0500 0.100 0.200 1,3,5-Trimethylbenzene 0.205 ug/L 1 ND 102 Chloroform 0.233 0.0500 0.100 ug/L 1 0.200 ND 116 79-124% 1,2-Dibromo-3-chloropropane 0.201 0.100 0.200 ug/L 1 0.200 ND 100 62-128% 1,2-Dibromoethane (EDB) 0.200 0.0100 0.0200 ug/L 1 0.200 ND 100 77-121% 0.0100 0.0200 0.200 ND 77-125% 1,1-Dichloroethane 0.247 ug/L 1 123 1,2-Dichloroethane (EDC) 0.244 0.01000.0200ug/L 1 0.200 ND 122 73-128% 1,1-Dichloroethene 0.0100 0.02000.200 ND 113 0.226 ug/L 1 71-131% cis-1,2-Dichloroethene 0.229 0.0100 0.0200 ug/L 1 0.200 ND 115 78-123% trans-1,2-Dichloroethene 0.235 0.0100 0.0200 ug/L 1 0.200 ND 118 75-124% 1,2-Dichloropropane 0.246 0.0100 0.0200 ug/L 1 0.200 ND 123 78-122% Q-54 0.0100 cis-1,3-Dichloropropene 0.201 0.02000.200 ND 100 75-124% ug/L 1 0.207 0.0100 0.200 ND 103 73-127% trans-1,3-Dichloropropene 0.0200ug/L 1 Methyl tert-butyl ether (MTBE) 0.205 0.0100 0.0200 0.200 ND 102 71-124% ug/L 1 0.0100 0.0200 1,1,2,2-Tetrachloroethane 0.225 ug/L 1 0.200 ND 113 71-121% Tetrachloroethene (PCE) 0.223 0.0100 0.0200 ug/L 1 0.200 ND 111 74-129% ___ 1,1,2-Trichloroethane 0.205 0.0100 0.0200 ug/L 1 0.200 ND 102 80-120% Trichloroethene (TCE) 0.229 0.0100 0.0200 0.200 ND 114 79-123% ug/L 1 1,2,3-Trichloropropane 0.234 0.0500 0.200 ND 117 73-122% 0.100ug/L 1 0.0100 Q-54c 0.290 0.0200 0.200 Vinyl chloride ND 145 58-137% ug/L ---Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 93 % 80-120 % 80-120 % 4-Bromofluorobenzene (Surr) 94 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 38 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1031065 - EPA 3510C(Neutral pH	1)					Wat	er				
Blank (1031065-BLK1)			Prepared	: 03/26/21	12:27 Ana	lyzed: 03/29	/21 07:59					C-07
EPA 8082A												
Aroclor 1016	ND	0.00909	0.0182	ug/L	1							
Aroclor 1221	ND	0.00909	0.0182	ug/L	1							
Aroclor 1232	ND	0.00909	0.0182	ug/L	1							
Aroclor 1242	ND	0.00909	0.0182	ug/L	1							
Aroclor 1248	ND	0.00909	0.0182	ug/L	1							
Aroclor 1254	ND	0.00909	0.0182	ug/L	1							
Aroclor 1260	ND	0.00909	0.0182	ug/L	1							
Surr: Decachlorobiphenyl (Surr)		Reco	very: 77%	Limits: 40	0-135 %	Dilı	ution: 1x					
LCS (1031065-BS1)			Prepared	: 03/26/21	12:27 Ana	lyzed: 03/29	/21 08:17					C-07
EPA 8082A												
Aroclor 1016	1.00	0.0100	0.0200	ug/L	1	1.25		80	46-129%			
Aroclor 1260	1.16	0.0100	0.0200	ug/L	1	1.25		93	45-134%			
Surr: Decachlorobiphenyl (Surr)		Reco	very: 91 %	Limits: 40	0-135 %	Dilı	ution: 1x					
LCS Dup (1031065-BSD1)			Prepared	: 03/26/21	12:27 Ana	lyzed: 03/29	/21 08:35					C-07, Q-19
EPA 8082A												
Aroclor 1016	0.926	0.0100	0.0200	ug/L	1	1.25		74	46-129%	8	30%	
Aroclor 1260	1.09	0.0100	0.0200	ug/L	1	1.25		87	45-134%	7	30%	
Surr: Decachlorobiphenyl (Surr)		Reco	very: 91 %	Limits: 40	0-135 %	Dilı	ution: 1x					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Spike % REC RPD Reporting Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1030999 - EPA 3510C (Acid Extraction) Water Blank (1030999-BLK2) Prepared: 03/25/21 10:01 Analyzed: 03/25/21 22:58 EPA 8270E Acenaphthene ND 0.00909 0.0182 ug/L ND 0.00909 0.0182 ug/L 1 Acenaphthylene Anthracene ND 0.00909 0.0182 ug/L 1 Benz(a)anthracene ND 0.00909 0.01821 ug/L ND 0.0136 0.0273 ug/L 1 Benzo(a)pyrene 0.0136 0.0273 Benzo(b)fluoranthene ND ug/L 1 ------------Benzo(k)fluoranthene ND 0.0136 0.0273 ug/L 1 0.00909 0.0182 ND Benzo(g,h,i)perylene ug/L 1 Chrysene ND 0.00909 0.0182 ug/L 1 Dibenz(a,h)anthracene ND 0.00909 0.0182 ug/L 1 Fluoranthene ND 0.009090.0182 ug/L 1 ND 0.00909 0.0182 Fluorene 1 ug/L Indeno(1,2,3-cd)pyrene ND 0.00909 0.0182 ug/L 1 ND 0.0182 0.0364 1-Methylnaphthalene ug/L 1 2-Methylnaphthalene ND 0.01820.0364 ug/L 1 Naphthalene ND 0.0182 0.0364 ug/L 1 ------------Phenanthrene ND 0.00909 0.0182 ug/L 1 ND 0.00909 0.0182 Pyrene ug/L 1 ------Carbazole ND 0.0136 0.0273 ug/L 1 Dibenzofuran ND 0.00909 0.0182 ug/L 1 2-Chlorophenol ND 0.04550.0909 ug/L 1 4-Chloro-3-methylphenol ND 0.0909 0.182 ug/L 1 0.0455 0.0909 2,4-Dichlorophenol ND ug/L 1 2,4-Dimethylphenol ND 0.0455 0.0909 ug/L 1 0.227 0.455 2,4-Dinitrophenol ND ug/L 1 4,6-Dinitro-2-methylphenol ND 0.227 0.455 ug/L 1 2-Methylphenol ND 0.0227 0.0455 ug/L 1 0.0227 3+4-Methylphenol(s) ND 0.0455 ug/L 1 ---2-Nitrophenol ND 0.0909 0.182ug/L 1 0.0909 4-Nitrophenol ND 0.182 ug/L 1 Pentachlorophenol (PCP) ND 0.0909 0.182 ug/L 1 Phenol ND 0.182 0.364 ug/L 1 ---ND 0.0455 0.0909 2,3,4,6-Tetrachlorophenol ug/L 1

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 40 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1030999 - EPA 3510C (A	Acid Extra	ction)	-			-	Wate	er				
Blank (1030999-BLK2)			Prepared	: 03/25/21 10):01 Anal	yzed: 03/25/	21 22:58					
2,3,5,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1							
2,4,5-Trichlorophenol	ND	0.0455	0.0909	ug/L	1							
2,4,6-Trichlorophenol	ND	0.0455	0.0909	ug/L	1							
Bis(2-ethylhexyl)phthalate	ND	0.182	0.364	ug/L	1							
Butyl benzyl phthalate	ND	0.182	0.364	ug/L	1							
Diethylphthalate	ND	0.182	0.364	ug/L	1							
Dimethylphthalate	ND	0.182	0.364	ug/L	1							
Di-n-butylphthalate	ND	0.182	0.364	ug/L	1							
Di-n-octyl phthalate	ND	0.182	0.364	ug/L	1							
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 74 %	Limits: 44-	120 %	Dilu	tion: 1x					Q-41
2-Fluorobiphenyl (Surr)			53 %	44-1	20 %		"					
Phenol-d6 (Surr)			27 %	10-1	33 %		"					Q-41
p-Terphenyl-d14 (Surr)			104 %	50-1	34 %		"					
2-Fluorophenol (Surr)			39 %	19-1	20 %		"					
2,4,6-Tribromophenol (Surr)			74 %	43-1	40 %		"					
LCS (1030999-BS3)			Prepared	: 03/25/21 10):01 Anal	yzed: 03/25/	21 23:33					
EPA 8270E												
Acenaphthene	2.92	0.0200	0.0400	ug/L	2	4.00		73	47-122%			
Acenaphthylene	3.17	0.0200	0.0400	ug/L	2	4.00		79	41-130%			
	2.47							0.5	57-123%			
Anthracene	3.47	0.0200	0.0400	ug/L	2	4.00		87	3/-12370			
Anthracene Benz(a)anthracene	3.47	0.0200 0.0200	0.0400 0.0400	ug/L ug/L	2 2				58-125%			
				_		4.00		91				
Benz(a)anthracene	3.65	0.0200	0.0400	ug/L	2	4.00 4.00		91 92	58-125%			
Benz(a)anthracene Benzo(a)pyrene	3.65 3.67	0.0200 0.0300	0.0400 0.0600	ug/L ug/L	2 2	4.00 4.00 4.00		91 92 93	58-125% 54-128%			
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	3.65 3.67 3.71	0.0200 0.0300 0.0300	0.0400 0.0600 0.0600	ug/L ug/L ug/L	2 2 2	4.00 4.00 4.00 4.00	 	91 92 93 89	58-125% 54-128% 53-131%			
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene	3.65 3.67 3.71 3.57	0.0200 0.0300 0.0300 0.0300	0.0400 0.0600 0.0600 0.0600	ug/L ug/L ug/L ug/L	2 2 2 2	4.00 4.00 4.00 4.00 4.00	 	91 92 93 89 93	58-125% 54-128% 53-131% 57-129%	 		
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Chrysene	3.65 3.67 3.71 3.57 3.72	0.0200 0.0300 0.0300 0.0300 0.0200	0.0400 0.0600 0.0600 0.0600 0.0400	ug/L ug/L ug/L ug/L ug/L	2 2 2 2 2	4.00 4.00 4.00 4.00 4.00 4.00	 	91 92 93 89 93 83	58-125% 54-128% 53-131% 57-129% 50-134%	 	 	
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Chrysene Dibenz(a,h)anthracene	3.65 3.67 3.71 3.57 3.72 3.32	0.0200 0.0300 0.0300 0.0300 0.0200 0.0200	0.0400 0.0600 0.0600 0.0600 0.0400 0.0400	ug/L ug/L ug/L ug/L ug/L ug/L	2 2 2 2 2 2 2	4.00 4.00 4.00 4.00 4.00 4.00 4.00	 	91 92 93 89 93 83 85	58-125% 54-128% 53-131% 57-129% 50-134% 59-123%	 		
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Chrysene Dibenz(a,h)anthracene	3.65 3.67 3.71 3.57 3.72 3.32 3.39	0.0200 0.0300 0.0300 0.0300 0.0200 0.0200 0.0200	0.0400 0.0600 0.0600 0.0600 0.0400 0.0400	ug/L ug/L ug/L ug/L ug/L ug/L	2 2 2 2 2 2 2 2	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	 	91 92 93 89 93 83 85 89	58-125% 54-128% 53-131% 57-129% 50-134% 59-123% 51-134%	 		
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Chrysene Dibenz(a,h)anthracene Fluoranthene	3.65 3.67 3.71 3.57 3.72 3.32 3.39 3.58	0.0200 0.0300 0.0300 0.0300 0.0200 0.0200 0.0200 0.0200	0.0400 0.0600 0.0600 0.0600 0.0400 0.0400 0.0400	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2 2 2 2 2 2 2 2 2 2	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	 	91 92 93 89 93 83 85 89 81	58-125% 54-128% 53-131% 57-129% 50-134% 59-123% 51-134% 57-128%	 		
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene	3.65 3.67 3.71 3.57 3.72 3.32 3.39 3.58 3.23	0.0200 0.0300 0.0300 0.0300 0.0200 0.0200 0.0200 0.0200 0.0200	0.0400 0.0600 0.0600 0.0400 0.0400 0.0400 0.0400 0.0400	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	 	91 92 93 89 93 83 85 89 81 85	58-125% 54-128% 53-131% 57-129% 50-134% 59-123% 51-134% 57-128% 52-124%	 		
Benz(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(g,h,i)perylene	3.65 3.67 3.71 3.57 3.72 3.32 3.39 3.58 3.23 3.41	0.0200 0.0300 0.0300 0.0300 0.0200 0.0200 0.0200 0.0200 0.0200 0.0200	0.0400 0.0600 0.0600 0.0400 0.0400 0.0400 0.0400 0.0400 0.0400	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	4.00 4.00 4.00 4.00 4.00 4.00 4.00 4.00	 	91 92 93 89 93 83 85 89 81 85 62	58-125% 54-128% 53-131% 57-129% 50-134% 59-123% 51-134% 57-128% 52-124% 52-134%	 	 	

Apex Laboratories

Philip Newsberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

		Sei	mivolatile (Organic (Compour	as by EP	4 82/UE					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REG	% REC Limits	RPD	RPD Limit	Notes
Batch 1030999 - EPA 3510C (Acid Extra	ction)					Wat	er				
LCS (1030999-BS3)			Prepared	: 03/25/21	10:01 Ana	yzed: 03/25/	/21 23:33					
Phenanthrene	3.27	0.0200	0.0400	ug/L	2	4.00		82	59-120%			
Pyrene	3.44	0.0200	0.0400	ug/L	2	4.00		86	57-126%			
Carbazole	3.93	0.0300	0.0600	ug/L	2	4.00		98	60-122%			
Dibenzofuran	2.97	0.0200	0.0400	ug/L	2	4.00		74	53-120%			
2-Chlorophenol	3.23	0.100	0.200	ug/L	2	4.00		81	38-120%			
4-Chloro-3-methylphenol	3.25	0.200	0.400	ug/L	2	4.00		81	52-120%			
2,4-Dichlorophenol	2.98	0.100	0.200	ug/L	2	4.00		74	47-121%			
2,4-Dimethylphenol	3.23	0.100	0.200	ug/L	2	4.00		81	31-124%			
2,4-Dinitrophenol	2.30	0.500	1.00	ug/L	2	4.00		58	23-143%			Q-
4,6-Dinitro-2-methylphenol	2.58	0.500	1.00	ug/L	2	4.00		65	44-137%			Q-
2-Methylphenol	3.15	0.0500	0.100	ug/L	2	4.00		79	30-120%			
3+4-Methylphenol(s)	2.86	0.0500	0.100	ug/L	2	4.00		72	29-120%			
2-Nitrophenol	2.84	0.200	0.400	ug/L	2	4.00		71	47-123%			
4-Nitrophenol	1.24	0.200	0.400	ug/L	2	4.00		31	10-120%			
Pentachlorophenol (PCP)	3.02	0.200	0.400	ug/L	2	4.00		75	35-138%			
Phenol	1.32	0.400	0.800	ug/L	2	4.00		33	10-120%			Q-
2,3,4,6-Tetrachlorophenol	3.00	0.100	0.200	ug/L	2	4.00		75	50-128%			
2,3,5,6-Tetrachlorophenol	3.26	0.100	0.200	ug/L	2	4.00		82	50-121%			
2,4,5-Trichlorophenol	3.08	0.100	0.200	ug/L	2	4.00		77	53-123%			
2,4,6-Trichlorophenol	3.15	0.100	0.200	ug/L	2	4.00		79	50-125%			
Bis(2-ethylhexyl)phthalate	3.68	0.400	0.800	ug/L	2	4.00		92	55-135%			
Butyl benzyl phthalate	4.08	0.400	0.800	ug/L	2	4.00		102	53-134%			
Diethylphthalate	3.53	0.400	0.800	ug/L	2	4.00		88	56-125%			
Dimethylphthalate	3.44	0.400	0.800	ug/L	2	4.00		86	45-127%			
Di-n-butylphthalate	4.07	0.400	0.800	ug/L	2	4.00		102	59-127%			
Di-n-octyl phthalate	4.29	0.400	0.800	ug/L	2	4.00		107	51-140%			
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 99 %	Limits: 44	4-120 %	Dilı	ution: 2x					Q-41
2-Fluorobiphenyl (Surr)			67 %	44	1-120 %		"					
Phenol-d6 (Surr)			37 %	10	0-133 %		"					Q-41
p-Terphenyl-d14 (Surr)			94 %	50	0-134 %		"					-
2-Fluorophenol (Surr)			52 %	19	0-120 %		"					
2,4,6-Tribromophenol (Surr)			88 %	43	3-140 %		"					

Apex Laboratories

LCS Dup (1030999-BSD3)

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Q-19

Philip Nerenberg, Lab Director

Prepared: 03/25/21 10:01 Analyzed: 03/26/21 18:56



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Analyte Result Limit Units Dilution Amount Result % REC Limits RPD Limit Limit Notes Batch 1030999 - EPA 3510C (Acid Extraction) Water LCS Dup (1030999-BSD3) Prepared: 03/25/21 10:01 Analyzed: 03/26/21 18:56 Q-19 EPA 8270E Acenaphthene 3.14 0.0200 0.0400 ug/L 2 4.00 78 47-122% 7 30% 0.0400 2 4.00 85 7 30% 3.38 0.0200 41-130% Acenaphthylene ug/L ---Anthracene 3.54 0.0200 0.0400 ug/L 2 4.00 88 57-123% 2 30% Benz(a)anthracene 3.74 0.0200 0.0400 2 4.00 93 58-125% 2 30% ug/L 3.84 0.0300 0.0600 2 4.00 96 54-128% 4 30% Benzo(a)pyrene ug/L 0.0300 2 4.00 96 53-131% 3 Benzo(b)fluoranthene 3.83 0.0600 ug/L 30% Benzo(k)fluoranthene 3.73 0.0300 0.0600 2 4.00 93 57-129% 4 30% ug/L 0.0200 0.0400 2 4.00 95 3.78 50-134% 2 30% Benzo(g,h,i)perylene ug/L Chrysene 3.48 0.0200 0.0400 ug/L 2 4.00 87 59-123% 5 30% Dibenz(a,h)anthracene 3.53 0.0200 0.0400 ug/L 2 4.00 88 51-134% 4 30% Fluoranthene 3.36 0.02000.0400 ug/L 2 4.00 84 57-128% 6 30% 3.23 0.0200 0.0400 2 4.00 81 52-124% 30% Fluorene 0.2 ug/L 0.0200 Indeno(1,2,3-cd)pyrene 3.51 0.0400 ug/L 2 4.00 88 52-134% 3 30% 2.74 0.0400 0.0800 2 4.00 68 41-120% 10 30% 1-Methylnaphthalene ug/L 2 2-Methylnaphthalene 2.71 0.04000.0800ug/L 4.00 68 40-121% 8 30% Naphthalene 2.54 0.0400 0.0800 ug/L 2 4.00 63 40-121% 8 30% ---2 Phenanthrene 3.39 0.02000.0400ug/L 4.00 85 59-120% 3 30% 3.26 0.0200 0.0400 2 4.00 82 57-126% 5 30% Pyrene ug/L 2 92 7 Carbazole 3.68 0.0300 0.0600ug/L 4.00 60-122% 30% Dibenzofuran 3.04 0.0200 0.0400 ug/L 2 4.00 76 53-120% 2 30% 4.02 2 9 Bis(2-ethylhexyl)phthalate 0.400 0.800ug/L 4.00 101 55-135% 30% 2 Butyl benzyl phthalate 4.41 0.400 0.800 ug/L 4.00 110 53-134% 8 30% 2 2 Diethylphthalate 3.59 0.400 0.800ug/L 4.00 90 56-125% 30% 2 Dimethylphthalate 3.47 0.400 0.800 ug/L 4.00 87 45-127% 1 30% 30% 4.08 0.400 0.800 2 4.00 Di-n-butylphthalate ug/L 102 59-127% 0.2 ug/L Di-n-octyl phthalate 4.70 0.400 0.800 2 117 51-140% 30% Surr: Nitrobenzene-d5 (Surr) Recovery: 102 % Limits: 44-120 % Dilution: 2x Q-41 2-Fluorobiphenyl (Surr) 71 % 44-120 % Phenol-d6 (Surr) 36 % 10-133 % p-Terphenyl-d14 (Surr) 101% 50-134 % 2-Fluorophenol (Surr) 53 % 19-120 % 43-140 % 2,4,6-Tribromophenol (Surr) 95 %

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 43 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1031154 - EPA 3015A							Wat	er				
Blank (1031154-BLK1)			Prepared	: 03/30/21	08:57 Anal	yzed: 03/30	/21 19:17					
EPA 200.8												
Chromium	ND	0.500	1.00	ug/L	1							
Mercury	ND	0.0400	0.0800	ug/L	1							
Zinc	ND	2.00	4.00	ug/L	1							
LCS (1031154-BS1)			Prepared	: 03/30/21	08:57 Anal	yzed: 03/30	/21 19:22					
EPA 200.8												
Chromium	55.5	0.500	1.00	ug/L	1	55.6		100	85-115%			
Mercury	1.09	0.0400	0.0800	ug/L	1	1.11		98	85-115%			
Zinc	55.5	2.00	4.00	ug/L	1	55.6		100	85-115%			
Duplicate (1031154-DUP1)			Prepared	: 03/30/21	08:57 Anal	yzed: 03/30	/21 19:48					
QC Source Sample: Non-SDG (A10	C0727-02)											
Chromium	2.27	0.500	1.00	ug/L	1		2.29			0.6	20%	
Mercury	ND	0.0400	0.0800	ug/L	1		ND				20%	
Zinc	137	2.00	4.00	ug/L	1		138			1	20%	
Matrix Spike (1031154-MS1)			Prepared	: 03/30/21	08:57 Anal	yzed: 03/30	/21 19:53					
QC Source Sample: Non-SDG (A10	C0727-02)											
EPA 200.8												
Chromium	58.4	0.500	1.00	ug/L	1	55.6	2.29	101	70-130%			
Mercury	1.07	0.0400	0.0800	ug/L	1	1.11	ND	97	70-130%			
Zinc	195	2.00	4.00	ug/L	1	55.6	138	102	70-130%			
Matrix Spike (1031154-MS2)			Prepared	: 03/30/21	08:57 Anal	yzed: 03/30	/21 20:13					
QC Source Sample: Non-SDG (A10	C0749-01)											
EPA 200.8												
Chromium	57.1	0.500	1.00	ug/L	1	55.6	ND	103	70-130%			
Mercury	1.11	0.0400	0.0800	ug/L	1	1.11	ND	100	70-130%			
Zinc	99.0	2.00	4.00	ug/L	1	55.6	43.4	100	70-130%			

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALITY CONTROL (QC) SAMPLE RESULTS

		То	tal Metals	by EPA	200.8 (ICF	MS) - Lov	w Level					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1040504 - EPA 3015A							Wat	er				
Blank (1040504-BLK1)			Prepared	: 04/14/21	15:50 Anal	yzed: 04/19	/21 15:50					
EPA 200.8-LL												
Arsenic	ND	0.0500	0.100	ug/L	1							
Cadmium	ND	0.00900	0.0180	ug/L	1							
LCS (1040504-BS1)			Prepared	: 04/14/21	15:50 Anal	yzed: 04/19	/21 15:57					
EPA 200.8-LL												
Arsenic	5.75	0.0500	0.100	ug/L	1	5.56		103	85-115%			
Cadmium	5.72	0.00900	0.0180	ug/L	1	5.56		103	85-115%			
Duplicate (1040504-DUP1)			Prepared	: 04/14/21	15:50 Anal	yzed: 04/19	/21 16:32					
OC Source Sample: Non-SDG (A10	C1109-01)											
Arsenic	0.124	0.0500	0.100	ug/L	1		0.143			15	20%	
Duplicate (1040504-DUP2)			Prepared	: 04/14/21	15:50 Anal	yzed: 04/19	/21 20:26					
QC Source Sample: Non-SDG (A1	C1109-01RE	E1)										
Cadmium	0.0316	0.00900	0.0180	ug/L	1		0.0379			18	20%	Q-1
Matrix Spike (1040504-MS1)			Prepared	: 04/14/21	15:50 Anal	yzed: 04/19	/21 16:39					
QC Source Sample: Non-SDG (A1)	C1109-01)											
EPA 200.8-LL	6.02	0.0500	0.100				0.1.12	106	5 0 1200/			
Arsenic	6.03	0.0500	0.100	ug/L	1	5.56	0.143	106	70-130%			
Matrix Spike (1040504-MS2)			Prepared	: 04/14/21	15:50 Ana	yzed: 04/19	/21 20:32					
QC Source Sample: Non-SDG (A1	C1109-01RI	<u></u>										
EPA 200.8-LL												
Cadmium	5.53	0.00900	0.0180	ug/L	1	5.56	0.0379	99	70-130%			Q-1

Apex Laboratories

Philip Menherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 45 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

SAMPLE PREPARATION INFORMATION

	Diesel and/or Oil Hydrocarbons by NWTPH-Dx											
Prep: EPA 3510C (Fuels/Acid Ext.) Sample Default RL Pro												
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor					
Batch: 1030960												
A1C0750-01	Water	NWTPH-Dx	03/18/21 08:42	03/24/21 13:23	910mL/5mL	1000mL/5mL	1.10					
A1C0750-02	Water	NWTPH-Dx	03/18/21 08:48	03/24/21 13:23	850mL/5mL	1000mL/5mL	1.18					
A1C0750-03	Water	NWTPH-Dx	03/18/21 09:00	03/24/21 13:23	1040mL/5mL	1000mL/5mL	0.96					

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx											
Prep: EPA 5030B					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 1030808											
A1C0750-01	Water	NWTPH-Gx (MS)	03/18/21 08:42	03/22/21 07:50	5mL/5mL	5mL/5mL	1.00				
A1C0750-02	Water	NWTPH-Gx (MS)	03/18/21 08:48	03/22/21 07:50	5mL/5mL	5mL/5mL	1.00				
A1C0750-03	Water	NWTPH-Gx (MS)	03/18/21 09:00	03/22/21 07:50	5mL/5mL	5mL/5mL	1.00				

	Volatile Organic Compounds by EPA 8260D											
Prep: EPA 5030B					Sample	Default	RL Prep					
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor					
Batch: 1030808												
A1C0750-01	Water	EPA 8260D	03/18/21 08:42	03/22/21 07:50	5mL/5mL	5mL/5mL	1.00					
A1C0750-02	Water	EPA 8260D	03/18/21 08:48	03/22/21 07:50	5mL/5mL	5mL/5mL	1.00					
A1C0750-03	Water	EPA 8260D	03/18/21 09:00	03/22/21 07:50	5mL/5mL	5mL/5mL	1.00					

Volatile Organic Compounds by EPA 8260D SIM											
<u>Prep: EPA 5030B</u>					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 1031037											
A1C0750-01	Water	EPA 8260D SIM	03/18/21 08:42	03/26/21 11:14	5mL/5mL	5mL/5mL	1.00				
A1C0750-02	Water	EPA 8260D SIM	03/18/21 08:48	03/26/21 11:14	5mL/5mL	5mL/5mL	1.00				
A1C0750-03	Water	EPA 8260D SIM	03/18/21 09:00	03/26/21 11:14	5mL/5mL	5mL/5mL	1.00				
A1C0750-04	Water	EPA 8260D SIM	03/18/21 00:00	03/26/21 11:14	5mL/5mL	5mL/5mL	1.00				
A1C0750-05	Water	EPA 8260D SIM	03/18/21 00:00	03/26/21 11:14	5mL/5mL	5mL/5mL	1.00				
A1C0750-06	Water	EPA 8260D SIM	03/18/21 00:00	03/26/21 11:14	5mL/5mL	5mL/5mL	1.00				

Polychlorinated Biphenyls by EPA 8082A

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

SAMPLE PREPARATION INFORMATION

Polychlorinated Biphenyls by EPA 8082A											
Prep: EPA 3510C (Neutral pH) Sample Default RL F											
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: 1031065											
A1C0750-01	Water	EPA 8082A	03/18/21 08:42	03/26/21 12:27	810mL/1mL	1000 mL/1 mL	1.23				
A1C0750-02	Water	EPA 8082A	03/18/21 08:48	03/26/21 12:27	940mL/1mL	1000 mL/1 mL	1.06				
A1C0750-03	Water	EPA 8082A	03/18/21 09:00	03/26/21 12:27	1050 mL/1 mL	1000 mL/1 mL	0.95				

	Semivolatile Organic Compounds by EPA 8270E											
Prep: EPA 3510C (Ac	cid Extraction)	Sample	Default	RL Prep								
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor					
Batch: 1030999												
A1C0750-01RE1	Water	EPA 8270E	03/18/21 08:42	03/25/21 10:01	910mL/1mL	1000 mL/1 mL	1.10					
A1C0750-02RE1	Water	EPA 8270E	03/18/21 08:48	03/25/21 10:01	870 mL/1 mL	1000 mL/1 mL	1.15					
A1C0750-03RE1	Water	EPA 8270E	03/18/21 09:00	03/25/21 15:03	1070 mL/1 mL	1000 mL/1 mL	0.94					

	Total Metals by EPA 200.8 (ICPMS)											
Prep: EPA 3015A					Sample	Default	RL Prep					
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor					
Batch: 1031154												
A1C0750-01	Water	EPA 200.8	03/18/21 08:42	03/30/21 08:57	45mL/50mL	45 mL/50 mL	1.00					
A1C0750-02	Water	EPA 200.8	03/18/21 08:48	03/30/21 08:57	45mL/50mL	45 mL/50 mL	1.00					
A1C0750-03	Water	EPA 200.8	03/18/21 09:00	03/30/21 08:57	45 mL/50 mL	45mL/50mL	1.00					

Total Metals by EPA 200.8 (ICPMS) - Low Level												
Prep: EPA 3015A					Sample	Default	RL Prep					
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor					
Batch: 1040504												
A1C0750-01	Water	EPA 200.8-LL	03/18/21 08:42	04/14/21 15:50	45mL/50mL	45mL/50mL	1.00					
A1C0750-01RE2	Water	EPA 200.8-LL	03/18/21 08:42	04/14/21 15:50	45mL/50mL	45mL/50mL	1.00					
A1C0750-02	Water	EPA 200.8-LL	03/18/21 08:48	04/14/21 15:50	45mL/50mL	45mL/50mL	1.00					
A1C0750-02RE1	Water	EPA 200.8-LL	03/18/21 08:48	04/14/21 15:50	45mL/50mL	45mL/50mL	1.00					
A1C0750-03	Water	EPA 200.8-LL	03/18/21 09:00	04/14/21 15:50	45mL/50mL	45mL/50mL	1.00					

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
 F-11 The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
 F-15 Results for diesel are estimated due to overlap from the reported oil result.
 F-16 Results for oil are estimated due to overlap from the reported diesel result.
 J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-01 Spike recovery and/or RPD is outside acceptance limits.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high.
- Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +16%. The results are reported as Estimated Values.
- Q-54b Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +21%. The results are reported as Estimated Values.
- Q-54c Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +8%. The results are reported as Estimated Values.
- Q-54d Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -16%. The results are reported as Estimated Values.
- Q-55 Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
- Q-56 Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
- R-02 The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
- R-04 Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 48 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

<u>Detection Limits:</u> Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

"___" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

"---" QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

- -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 49 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 50 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories

Matrix Analysis TNI_ID Analyte TNI_ID Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 51 of 53



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

Project#: 8x5.A	A. Se, A. Be, no (ed) Co. O. Oc. Ce, Pe, Pe, Pe, Re, Ne, Te, Vol. TCLP Menk (8) TCLP Menk (8)	<i>X X X X</i>	<i>X X X X</i>	<i>X X X X</i>						Levels as discussed. Thenk You!		RECEIVED BY: Date: Signature: Date:	Time: Printed Name: Time:
Project Name: 8757 Email: E-y.R. 185560+ 3/V/5, com	BCBY Metals (13) 8081 best 8700 Semi-Nois Full List 8700 Semi-Nois Full List 8700 SIM PAHs 8700 VOCs Full Cist	У Х	× × ×	* * *	*	×	×		SPECIAL INSTRUCTIONS:	Low bouchs as dis		RELINQUISHED BY: Signature:	Printed Name:
Phone: 503 468	8760 KBDW AOC* WALLH-C* WALLH-D* WALLH-HCID W OF CONTAINERS	××	×	XX					ess Days	3 Day		1/3/18/21	Soft My 17.45
Project Mgr. Kyle Crr, Wilsonville, C Kyle Hassort	LAB ID # TAME MATTRIX MATTRIX	8/18/24/ SW 14	1 848 SW 14	400 SWIY	**	3	**		Normal Turn Around Time (TAT) = (10 Business Days	1 Day 2 Day 31 4 DAY 5 DAY	SAMPLES ARE HELD FOR 30 DAYS	Date: Signature Signature Signature	Time: Printed Name:
Design, Inc o sw commo in Hainles	Site Location:	SW-1(031821)	SW-1-D4P(031821)	SW-2 (031821)	SW-1-TB(031821)	5W-1-DUP-TB(051821)	5W-Z#TB(031821)		Normal Turn	TAT Requested (circle) 4	SAMPL	Signature:	Printed Name:

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Merenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C0750 - 04 21 21 2038

APEX LABS COOLER RECEIPT FORM								
Client: Cue Olosi an Inc. Element WO#: A1CO 750								
Project/Project #: Former Automatic Vending Co. / BCS America-1-07								
Delivery Info:								
Date/time received: 3/18/21 @ 17:45 By: THY								
Delivered by: Apex Client ESS FedEx UPS Swift Senvoy SDS Other								
Cooler Inspection Date/time inspected: 3/18/12 @ 17.45 By: TAG								
Chain of Custody included? Yes No Custody seals? Yes No No								
Signed/dated by client? Yes No								
Signed/dated by Apex? Yes No								
Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #6 Cooler #7 Temperature (°C)								
Do VOA vials have visible headspace? Yes No \(\sum_{\text{NA}} \) NA Comments								
Water samples: pH checked: Yes No NA pH appropriate? Yes No NA								
Comments:								
Additional information: \(\frac{9}{9} = 2 - \tau B (\frac{531821}{21821} \) reaces \(\frac{9}{9} = -1 - \tau B (\frac{531821}{21821} \)								
my m- Losi very								
Labeled by: Witness: Cooler Inspected by:								
AKK TO THE STORES								

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevemberg



Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-54631-1 Client Project/Site: A1C0750

For:

Apex Laboratories LLC 6700 SW Sandburg St. Tigard, Oregon 97223

Attn: Philip Nerenberg

Authorized for release by: 3/30/2021 5:10:37 PM

Lori Thompson, Project Manager I (714)895-5494

Lori.Thompson@eurofinset.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

3

6

R

4 4

12

Client: Apex Laboratories LLC Project/Site: A1C0750

Laboratory Job ID: 570-54631-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receipt Checklists	15

1 U

12

4

4 E

Definitions/Glossary

Client: Apex Laboratories LLC Job ID: 570-54631-1

Project/Site: A1C0750

Glossary

PRES

QC

RER

RL RPD

TEF

TEQ

TNTC

Presumptive

Quality Control

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit

Case Narrative

Client: Apex Laboratories LLC Job ID: 570-54631-1

Project/Site: A1C0750

Job ID: 570-54631-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-54631-1

Comments

No additional comments.

Receipt

The samples were received on 3/23/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.7° C.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

E4624 4

9

0

0

9

10

10

13

15

Detection Summary

Client: Apex Laboratories LLC Job ID: 570-54631-1

Project/Site: A1C0750

Client Sample ID: S	ent Sample ID: SW-1(031821)						Lab Sample ID: 570-54631-			
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type		
Monobutyltin	79		3.4	2.7	ng/L		Organotins SIM	Total/NA		
Client Sample ID: S	W-1-DUP(03182 ²	1)				Lab Sa	mple ID: 57	0-54631-2		
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type		
Monobutyltin	81		3.3	2.6	ng/L		Organotins SIM	Total/NA		
Client Sample ID: S	W-2(031821)					Lab Sa	mple ID: 57	0-54631-3		
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac D	Method	Prep Type		
Monobutyltin	150		2.9	2.3	ng/L		Organotins SIM	Total/NA		

0

10

12

14

15

Client Sample Results

Client: Apex Laboratories LLC Job ID: 570-54631-1

Project/Site: A1C0750

Method: Organotins SIM - Organotins (GC/MS SIM)

Client Sample ID: SW-1(031821					Lab Sa	mple ID: 570-	54631-1		
Date Collected: 03/18/21 08:42								Matrix	: Water
Date Received: 03/23/21 10:30									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		3.4	2.2	ng/L		03/24/21 22:35	03/26/21 19:01	1
Tributyltin	ND		3.4	1.6	ng/L		03/24/21 22:35	03/26/21 19:01	1
Dibutyltin	ND		3.4	2.0	ng/L		03/24/21 22:35	03/26/21 19:01	1
Monobutyltin	79		3.4	2.7	ng/L		03/24/21 22:35	03/26/21 19:01	1

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
Tripentyltin	56	10 - 120	03/24/21 22:35	03/26/21 19:01	1

Client Sample ID: SW-1-DUP(031821) Lab Sample ID: 570-54631-2 Date Collected: 03/18/21 08:48 **Matrix: Water** Date Received: 03/23/21 10:30

Analyte	Result Q	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		3.3	2.1	ng/L		03/24/21 22:35	03/26/21 19:19	1
Tributyltin	ND		3.3	1.5	ng/L		03/24/21 22:35	03/26/21 19:19	1
Dibutyltin	ND		3.3	1.9	ng/L		03/24/21 22:35	03/26/21 19:19	1
Monobutyltin	81		3.3	2.6	ng/L		03/24/21 22:35	03/26/21 19:19	1

Surrogate		Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tripentyltin	61		10 - 120	03/24/21 22:35	03/26/21 19:19	1

Client Sample ID: SW-2(031821)	Lab Sample ID: 570-54631-3
Date Collected: 03/18/21 09:00	Matrix: Water
Date Received: 03/23/21 10:30	

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND -	2.9	1.9	ng/L		03/24/21 22:35	03/26/21 19:36	1
Tributyltin	ND	2.9	1.3	ng/L		03/24/21 22:35	03/26/21 19:36	1
Dibutyltin	ND	2.9	1.7	ng/L		03/24/21 22:35	03/26/21 19:36	1
Monobutyltin	150	2.9	2.3	ng/L		03/24/21 22:35	03/26/21 19:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tripentyltin	61		10 - 120	03/24/21 22:35	03/26/21 19:36	1

Surrogate Summary

Client: Apex Laboratories LLC Job ID: 570-54631-1

Project/Site: A1C0750

Method: Organotins SIM - Organotins (GC/MS SIM)

Matrix: Water Prep Type: Total/NA

Ni ant Oamela ID	TPTT	
\!!4 OI- ID		
Client Sample ID	(10-120)	
SW-1(031821)	56	
SW-1-DUP(031821)	61	
SW-2(031821)	61	
ab Control Sample	42	
ab Control Sample Dup	69	
Method Blank	64	
5	W-1-DUP(031821) W-2(031821) ab Control Sample ab Control Sample Dup	W-1-DUP(031821) 61 W-2(031821) 61 ab Control Sample 42 ab Control Sample Dup 69

QC Sample Results

Client: Apex Laboratories LLC Job ID: 570-54631-1 Project/Site: A1C0750

Method: Organotins SIM - Organotins (GC/MS SIM)

Lab Sample ID: MB 570-138495/1-A

Matrix: Water

Analysis Batch: 138972

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 138495

	MB	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		3.0	1.9	ng/L		03/24/21 22:35	03/26/21 16:04	1
Tributyltin	ND		3.0	1.4	ng/L		03/24/21 22:35	03/26/21 16:04	1
Dibutyltin	ND		3.0	1.8	ng/L		03/24/21 22:35	03/26/21 16:04	1
Monobutyltin	ND		3.0	2.4	ng/L		03/24/21 22:35	03/26/21 16:04	1

MB MB

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 03/24/21 22:35 03/26/21 16:04 Tripentyltin 10 - 120 64

111.7

ng/L

Lab Sample ID: LCS 570-138495/2-A

Tributyltin

Analysis Batch: 138972

Matrix: Water

Prep Type: Total/NA **Prep Batch: 138495**

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit D %Rec Tetrabutyltin 200 158.5 ng/L 79 21 - 124

200

LCS LCS

Surrogate %Recovery Qualifier Limits 10 - 120 Tripentyltin 42

Lab Sample ID: LCSD 570-138495/3-A

Matrix: Water

Analysis Batch: 138972

Client Sample ID: Lab Control Sample Dup

56

Client Sample ID: Lab Control Sample

10 - 120

Prep Type: Total/NA **Prep Batch: 138495**

%Rec.

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Tetrabutyltin	200	189.2		ng/L		95	21 - 124	18	30
Tributyltin	200	141.9		ng/L		71	10 - 120	24	30

LCSD LCSD

Surrogate %Recovery Qualifier Limits Tripentyltin 69 10 - 120

Eurofins Calscience LLC

QC Association Summary

Client: Apex Laboratories LLC Job ID: 570-54631-1

Project/Site: A1C0750

GC/MS Semi VOA

Prep Batch: 138495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-54631-1	SW-1(031821)	Total/NA	Water	Organotin	
570-54631-2	SW-1-DUP(031821)	Total/NA	Water	Organotin	
570-54631-3	SW-2(031821)	Total/NA	Water	Organotin	
MB 570-138495/1-A	Method Blank	Total/NA	Water	Organotin	
LCS 570-138495/2-A	Lab Control Sample	Total/NA	Water	Organotin	
LCSD 570-138495/3-A	Lab Control Sample Dup	Total/NA	Water	Organotin	

Analysis Batch: 138972

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-54631-1	SW-1(031821)	Total/NA	Water	Organotins SIM	138495
570-54631-2	SW-1-DUP(031821)	Total/NA	Water	Organotins SIM	138495
570-54631-3	SW-2(031821)	Total/NA	Water	Organotins SIM	138495
MB 570-138495/1-A	Method Blank	Total/NA	Water	Organotins SIM	138495
LCS 570-138495/2-A	Lab Control Sample	Total/NA	Water	Organotins SIM	138495
LCSD 570-138495/3-A	Lab Control Sample Dup	Total/NA	Water	Organotins SIM	138495

2

5

4

5

7

_

10

13

14

45

Lab Chronicle

Client: Apex Laboratories LLC Job ID: 570-54631-1

Project/Site: A1C0750

Client Sample ID: SW-1(031821)

Lab Sample ID: 570-54631-1 Date Collected: 03/18/21 08:42 **Matrix: Water**

Date Received: 03/23/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin			871.3 mL	1 mL	138495	03/24/21 22:35	W8MO	ECL 1
Total/NA	Analysis	Organotins SIM		1			138972	03/26/21 19:01	AJ2Q	ECL 1
	Instrumen	t ID: GCMSY								

Client Sample ID: SW-1-DUP(031821)

Lab Sample ID: 570-54631-2 Date Collected: 03/18/21 08:48 **Matrix: Water**

Date Received: 03/23/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin			913.5 mL	1 mL	138495	03/24/21 22:35	W8MO	ECL 1
Total/NA	Analysis	Organotins SIM		1			138972	03/26/21 19:19	AJ2Q	ECL 1
	Instrumer	nt ID: GCMSY								

Lab Sample ID: 570-54631-3 Client Sample ID: SW-2(031821)

Date Collected: 03/18/21 09:00 **Matrix: Water**

Date Received: 03/23/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin			1030.7 mL	1 mL	138495	03/24/21 22:35	W8MO	ECL 1
Total/NA	Analysis	Organotins SIM		1			138972	03/26/21 19:36	AJ2Q	ECL 1
	Instrumer	nt ID: GCMSY								

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Apex Laboratories LLC Job ID: 570-54631-1

Project/Site: A1C0750

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	CA300001	01-30-22
Washington	State	C916-18	10-11-21

•

3

4

5

7

12

1 1

41

Method Summary

Client: Apex Laboratories LLC

Project/Site: A1C0750

Job ID: 570-54631-1

Method	Method Description	Protocol	Laboratory
Organotins SIM	Organotins (GC/MS SIM)	Lab SOP	ECL 1
Organotin	Extraction (Organotins)	WRC	ECL 1

Protocol References:

Lab SOP = Laboratory Standard Operating Procedure
WRC = WRC Notebook 11431-39, ICI America's Western Research Center May, 1989.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Apex Laboratories LLC Project/Site: A1C0750

Job ID: 570-54631-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
70-54631-1	SW-1(031821)	Water	03/18/21 08:42	03/23/21 10:30	
70-54631-2	SW-1-DUP(031821)	Water	03/18/21 08:48	03/23/21 10:30	
0-54631-3	SW-2(031821)	Water	03/18/21 09:00	03/23/21 10:30	

SUBCONTRACT ORDER

Apex Laboratories



06319MA1C0750

SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223

Phone: (503) 718-2323 Fax: (503) 336-0745

Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Eurofins_CalScience 7440 Lincoln Way

Garden Grove, CA 92841-1427

Phone: (714) 895-5494 Fax: (714) 894-7501

				No T on nitric poly, T on	Cont reads 843
Sample Name: SW-1(031821)		Water	Sampled:	03/18/21 08:42	(A1C0750-01)
Analysis	Due	Expires		Comments	
TBT, Butyl Tins (4) (Sub)	03/31/21 17:00	04/01/21 08:4	42		
Containers Supplied:					
(M)1 LAmber Glass - Non Preserved					
(N)1 LAmber Glass - Non Preserved					
portugues and a filter of the continuity of the continuity of the standard and it.			ili kiringa mangangan pangangan dalah d	No T on nitric poly	
Sample Name: SW-1-DUP(031821)		Water	Sampled:	03/18/21 08:48	(A1C0750-02)
Analysis	Due	Expires	**************************************	Comments	

TBT, Butyl Tins (4) (Sub)	03/31/21 17:00	04/01/21 08:48
Contamora Sumplied		

Containers Supplied:

(M)1 L Amber Glass - Non Preserved

(N)1 L Amber Glass - Non Preserved

ample Name: SW-2(031821)		Water Samj	pled: 03/18/21 09:00	(A1C0750-03)
Analysis	Due	Expires	Comments	
TBT, Butyl Tins (4) (Sub)	03/31/21 17:00	04/01/21 09:00		
Containers Supplied:				
(M)l LAmber Glass - Non Preserved				
(N)1 L Amber Glass - Non Preserved				

Standard TAT

Released By

Released By

Fed Ex (Shipper)

Date

Received By

Received By

Fed Ex (Shipper)

Date 3/23/21

10:30

Date

Page 1 of 1 Jh 3/30/2021

Page 14 of 15

Login Sample Receipt Checklist

Client: Apex Laboratories LLC Job Number: 570-54631-1

Login Number: 54631 List Source: Eurofins Calscience

List Number: 1

Creator: Ramos, Maribel

ordator: ramos, mandor		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

2

3

4

_

7

9

11

13

14

15

www.capefearanalytical.com



April 16, 2021

Mr. Philip Nerenberg Apex Laboratories 6700 SW Sandburg Street Portland, Oregon 97223

Re: DXN & PCB Subcontract

Work Order: 17896 SDG: A1C0750

Dear Mr. Nerenberg:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 24, 2021. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Cyrole Larkins

Cynde Larkins Project Manager

Enclosures

SUBCONTRACT ORDER

Apex Laboratories

015 3119h A1C0750

CFA WO# 17896

SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223

Phone: (503) 718-2323 Fax: (503) 336-0745

Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Cape Fear Analytical, LLC 3306 Kitty Hawk Rd Suite 120

Wilmington, NC 28405

Phone :(910) 795-0421

Fax: -

No T on nitric poly, T on Cont reads 843

Sample Name: SW-1(031821)		Water	Sampled:	03/18/21 08:42	(A1C0750-01)
Analysis	Due	Expires		Comments	
1613B Dioxins and Furans (SUB)	03/31/21 17:00	09/14/21 08:	:42		
Containers Supplied:					
(K)1 L Amber Glass - Non Preserved					
(L)1 L Amber Glass - Non Preserved					
				No T on nitric poly	
Sample Name: SW-1-DUP(031821)		Water	Sampled:	03/18/21 08:48	(A1C0750-02)
Analysis	Due	Expires		Comments	
1613B Dioxins and Furans (SUB)	03/31/21 17:00	09/14/21 08:	:48		
Containers Supplied:					
(K)1 L Amber Glass - Non Preserved					
(L)I LAmber Glass - Non Preserved		***************************************			
Sample Name: SW-2(031821)		Water	Sampled:	03/18/21 09:00	(A1C0750-03)
Analysis	Due	Expires		Comments	
1613B Dioxins and Furans (SUB)	03/31/21 17:00	09/14/21 09:	:00		
Containers Supplied:					
(K)1 L Amber Glass - Non Preserved					
(L)1 L Amber Glass - Non Preserved					

Standard TAT

Lemp. = 1.70C

Released By

Released By

Date /

Received By

Date

Fed Ex (Shipper)

Fed Ex (Shipper)

Date

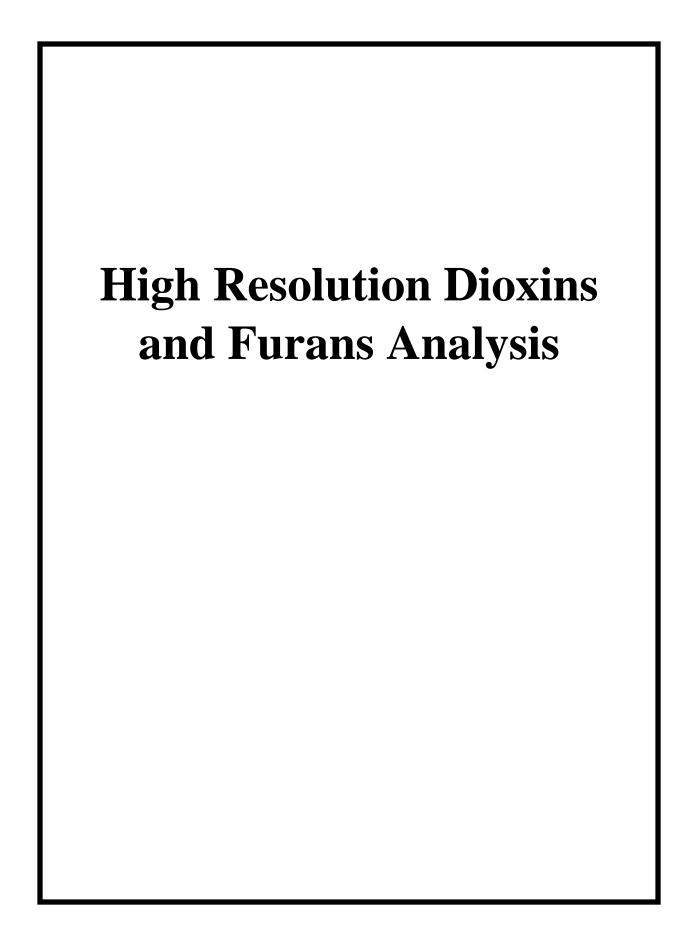
ynde Larkins

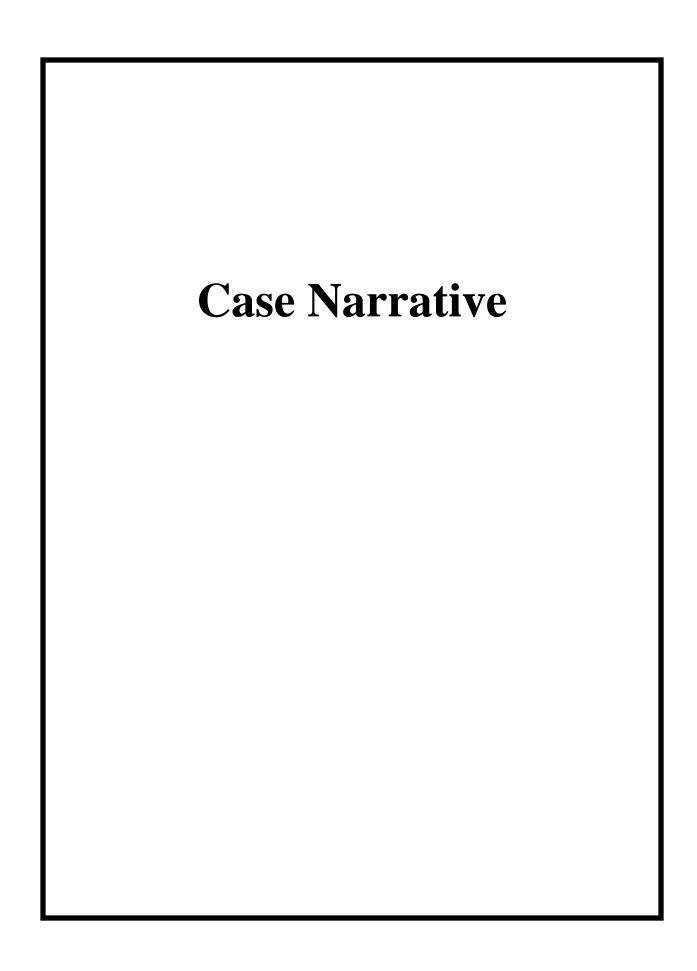
24MARZI @ 1

Page 1 of 1

SAMPLE RECEIPT CHECKLIST

				(Cape Fear Analytical
Clie	ent: APEX				Work Order: 17896
Shi	pping Company: FedEx				Date/Time Received: MAR 24, 2021 1023
Sus	pected Hazard Information	Yes	NA	No	DOE Site Sample Packages Yes NA No*
Shi	pped as DOT Hazardous?			V	Screened <0.5 mR/hr?
Sar	nples identified as Foreign Soil?			0	Samples < 2x background?
F					* Notify RSO of any responses in this column immediately.
L	Sample Receipt Specifics sample in shipment?	Yes	NA	No	Air Witness:
		L			
-	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	✓	2		seals broken damaged container leaking container other(describe)
2	Custody seal/s present on cooler?			/	Seal intact? Yes No
3	Chain of Custody documents included with shipment?	/			
4	Samples requiring cold preservation within 0-6°C?	/	/		Preservation-Method: Temperature Blank present: (Pes No ice bags (loose ice) blue ice dry ice none other (describe)
5	Aqueous samples found to have visible solids?	/			Sample IDs, containers affected: Visible Aplids (41%) in all
5	Samples requiring chemical preservation at proper pH?		V		Sample IDs, containers affected and pH observed: PH = 7 on all If preservative added, Lot#:
7	Samples requiring preservation have no residual chlorine?	1			Sample IDs, containers affected: If preservative added, Lot#:
8	Samples received within holding time?	/			Sample IDs, tests affected:
9	Sample IDs on COC match IDs on containers?	/			Sample IDs, containers affected:
10	Date & time of COC match date & time on containers?	/	/	***************************************	Sample IDs, containers affected:
11	Number of containers received match number indicated on COC?	/			List type and number of containers / Sample IDs, containers affected: 2-1L NMAG bo Hles per sample. b total
12	COC form is properly signed in relinquished/received sections?	✓			
Cor	mments:				





HDOX Case Narrative Apex Laboratories (APEX) SDG A1C0750 Work Order 17896

Method/Analysis Information

Product: Dioxins/Furans by EPA Method 1613B in Liquids

Analytical Method: EPA Method 1613B

Extraction Method: SW846 3520C

Analytical Batch Number: 46547 Clean Up Batch Number: 46545 Extraction Batch Number: 46544

Sample Analysis

Samples were received within temperature requirements at 1.7°C (17896001, 17896002, and 17896003). The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12029049	Method Blank (MB)
12029050	Laboratory Control Sample (LCS)
12029051	Laboratory Control Sample Duplicate (LCSD)
17896001	SW-1(031821)
17896002	SW-1-DUP(031821)
17896003	SW-2(031821)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 20.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (CCV) met the acceptance criteria.

Page 6 of 27 Work Order: 17896

Quality Control (QC) Information

Certification Statement

The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Holding Time Specifications

CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Nonconformance (NCR) Documentation

A NCR was not required for this SDG.

Page 7 of 27 Work Order: 17896

Manual Integrations

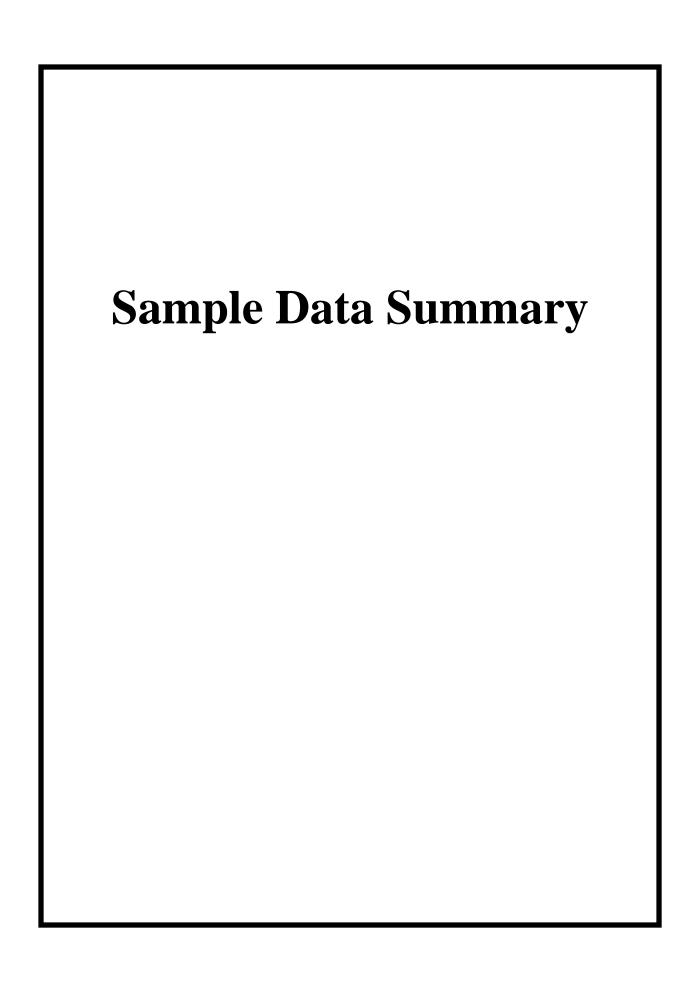
Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP750_2	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Page 8 of 27 Work Order: 17896



Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report for

APEX001 Apex Laboratories

Client SDG: A1C0750 CFA Work Order: 17896

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- B The target analyte was detected in the associated blank.
- J Value is estimated
- K Estimated Maximum Possible Concentration
- U Analyte was analyzed for, but not detected above the specified detection limit.
- DL Indicates that sample is diluted.
- RA Indicates that sample is re-analyzed without re-extraction.
- RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: Name: Alexis Finks

Date: 16 APR 2021 Title: Data Validator

Page 10 of 27 Work Order: 17896

Page 1

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1C0750 SDG Number: Client: 17896001 **Date Collected:** Lab Sample ID: 1613B Water 03/24/2021 10:23 Date Received: **Client Sample:** Client ID: SW-1(031821)

04/13/2021 00:06 **Run Date:** Data File: A10APR21A_7-4

46547

46544 Prep Batch: **Prep Date:** 08-APR-21

Batch ID:

APEX001 03/18/2021 08:42

> EPA Method 1613B CLP

SW846 3520C **Prep Method: Prep Aliquot:** 908.5 mL

Method:

Analyst:

Project: APEX00320 WATER Matrix:

As Received

Prep Basis: HRP750

Instrument: Dilution: 1

Prep Date:	08-APR-21	Prep Aliquot:	908.5 mL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.944	pg/L	0.944	11.0
40321-76-4	1,2,3,7,8-PeCDD	U	0.735	pg/L	0.735	55.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	1.28	pg/L	1.28	55.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.24	pg/L	1.24	55.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	1.28	pg/L	1.28	55.0
5822-46-9	1,2,3,4,6,7,8-HpCDD	J	3.90	pg/L	2.55	55.0
268-87-9	1,2,3,4,6,7,8,9-OCDD	BJ	24.9	pg/L	3.32	110
1207-31-9	2,3,7,8-TCDF	U	0.988	pg/L	0.988	11.0
7117-41-6	1,2,3,7,8-PeCDF	ВЈК	0.925	pg/L	0.619	55.0
7117-31-4	2,3,4,7,8-PeCDF	ВЈК	1.12	pg/L	0.594	55.0
0648-26-9	1,2,3,4,7,8-HxCDF	U	0.526	pg/L	0.526	55.0
7117-44-9	1,2,3,6,7,8-HxCDF	U	0.561	pg/L	0.561	55.0
851-34-5	2,3,4,6,7,8-HxCDF	BJK	0.748	pg/L	0.553	55.0
2918-21-9	1,2,3,7,8,9-HxCDF	BJ	1.10	pg/L	0.843	55.0
562-39-4	1,2,3,4,6,7,8-HpCDF	BJ	1.45	pg/L	0.744	55.0
673-89-7	1,2,3,4,7,8,9-HpCDF	U	1.09	pg/L	1.09	55.0
0001-02-0	1,2,3,4,6,7,8,9-OCDF	ВЈК	2.64	pg/L	2.22	110
903-57-5	Total TeCDD	U	0.944	pg/L	0.944	11.0
6088-22-9	Total PeCDD	U	0.735	pg/L	0.735	55.0
4465-46-8	Total HxCDD	ВЈК	6.32	pg/L	1.24	55.0
7871-00-4	Total HpCDD	JK	8.89	pg/L	2.55	55.0
0402-14-3	Total TeCDF	U	0.988	pg/L	0.988	11.0
402-15-4	Total PeCDF	ВЈК	2.42	pg/L	0.365	55.0
684-94-1	Total HxCDF	ВЈК	1.85	pg/L	0.526	55.0
8998-75-3	Total HpCDF	ВЈ	1.45	pg/L	0.744	55.0
333-30-2	TEQ WHO2005 ND=0 with EMPCs		0.611	pg/L		
333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		1.75	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1590	2200	pg/L	72.1	(25%-164%)
13C-1,2,3,7,8-PeCDD		1610	2200	pg/L	73.2	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1410	2200	pg/L	64.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1580	2200	pg/L	71.7	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1740	2200	pg/L	79.2	(23%-140%)
13C-OCDD		3080	4400	pg/L	70.0	(17%-157%)
13C-2,3,7,8-TCDF		1600	2200	pg/L	72.7	(24%-169%)
13C-1,2,3,7,8-PeCDF		1660	2200	pg/L	75.3	(24%-185%)
13C-2,3,4,7,8-PeCDF		1640	2200	pg/L	74.4	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1480	2200	pg/L	67.3	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1590	2200	pg/L	72.2	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1560	2200	pg/L	71.0	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1590	2200	pg/L	72.2	(29%-147%)

Page 2

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

SDG Number: A1C0750 Client: APEX001 Project: APEX00320 Lab Sample ID: 17896001 Date Collected: 03/18/2021 08:42 Matrix: WATER

Client Sample: 1613B Water Date Received: 03/24/2021 10:23

 Client ID:
 SW-1(031821)
 Prep Basis:
 As Received

 Batch ID:
 46547
 Method:
 EPA Method 1613B

 Run Date:
 04/13/2021 00:06
 Analyst:
 CLP
 Instrument:
 HRP750

 Run Date:
 04/13/2021 00:06
 Analyst:
 CLP
 Instrument:
 HRP75

 Data File:
 A10APR21A_7-4
 Dilution:
 1

 Prep Batch:
 46544
 Prep Method:
 SW846 3520C

Prep Date: 08-APR-21 Prep Aliquot: 908.5 mL

CAS No. Parmname Qual Result Units EDL PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1620	2200	pg/L	73.4	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1620	2200	pg/L	73.4	(26%-138%)
37Cl-2,3,7,8-TCDD		178	220	pg/L	81.0	(35%-197%)

Comments:

- B The target analyte was detected in the associated blank.
- J Value is estimated
- **K** Estimated Maximum Possible Concentration
- U Analyte was analyzed for, but not detected above the specified detection limit.

Report Date:

Page 1

April 16, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1C0750 SDG Number: 17896002 Lab Sample ID: 1613B Water **Client Sample:**

Date Collected: Date Received:

APEX001 03/18/2021 08:48 03/24/2021 10:23

Project: Matrix: APEX00320 WATER

As Received

HRP750

1

Client ID: Batch ID:

SW-1-DUP(031821)

04/13/2021 00:56

Method: **Analyst:**

Client:

EPA Method 1613B

Instrument: Dilution:

Prep Basis:

Run Date: Data File: **Prep Batch:**

Prep Date:

A10APR21A_7-5 46544 08-APR-21

46547

SW846 3520C **Prep Method:**

CLP

Prep Aliquot: 969.8 mL

Trep Date.	00-A1 K-21	F4				
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.46	pg/L	1.46	10.3
40321-76-4	1,2,3,7,8-PeCDD	U	1.53	pg/L	1.53	51.6
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.10	pg/L	2.10	51.6
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.87	pg/L	1.87	51.6
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.00	pg/L	2.00	51.6
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	13.2	pg/L	3.82	51.6
3268-87-9	1,2,3,4,6,7,8,9-OCDD		161	pg/L	7.69	103
51207-31-9	2,3,7,8-TCDF	U	1.68	pg/L	1.68	10.3
57117-41-6	1,2,3,7,8-PeCDF	U	0.860	pg/L	0.860	51.6
57117-31-4	2,3,4,7,8-PeCDF	U	0.788	pg/L	0.788	51.6
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.930	pg/L	0.930	51.6
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.909	pg/L	0.909	51.6
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.947	pg/L	0.947	51.6
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.46	pg/L	1.46	51.6
67562-39-4	1,2,3,4,6,7,8-HpCDF	ВЈК	1.81	pg/L	1.04	51.6
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	1.53	pg/L	1.53	51.6
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	3.44	pg/L	3.44	103
41903-57-5	Total TeCDD	JK	2.29	pg/L	1.46	10.3
36088-22-9	Total PeCDD	U	1.53	pg/L	1.53	51.6
34465-46-8	Total HxCDD	ВЈК	13.1	pg/L	1.87	51.6
37871-00-4	Total HpCDD	JK	31.7	pg/L	3.82	51.6
30402-14-3	Total TeCDF	U	1.68	pg/L	1.68	10.3
30402-15-4	Total PeCDF	U	0.641	pg/L	0.641	51.6
55684-94-1	Total HxCDF	ВЈК	1.05	pg/L	0.909	51.6
38998-75-3	Total HpCDF	ВЈК	1.81	pg/L	1.04	51.6
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		0.198	pg/L		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		2.43	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1300	2060	pg/L	63.3	(25%-164%)
13C-1,2,3,7,8-PeCDD		1260	2060	pg/L	60.9	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1110	2060	pg/L	53.7	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1380	2060	pg/L	67.2	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1380	2060	pg/L	66.9	(23%-140%)
13C-OCDD		2410	4120	pg/L	58.5	(17%-157%)
13C-2,3,7,8-TCDF		1310	2060	pg/L	63.4	(24%-169%)
13C-1,2,3,7,8-PeCDF		1310	2060	pg/L	63.5	(24%-185%)
13C-2,3,4,7,8-PeCDF		1250	2060	pg/L	60.6	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1250	2060	pg/L	60.5	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1360	2060	pg/L	65.8	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1350	2060	pg/L	65.3	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1240	2060	pg/L	60.3	(29%-147%)

Page 2

As Received

HRP750

1

Prep Basis:

Instrument:

Dilution:

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

APEX001 APEX00320 SDG Number: A1C0750 Client: **Project:** 17896002 03/18/2021 08:48 WATER Lab Sample ID: **Date Collected:** Matrix: 1613B Water Date Received: 03/24/2021 10:23 **Client Sample:**

Client ID: SW-1-DUP(031821)

Client ID: SW-1-DUP(031821)
Batch ID: 46547

Run Date: 04/13/2021 00:56

Data File: A10APR21A_7-5

Prep Batch: 46544 Prep Date: 08-APR-21 Method: EPA Method 1613B

Analyst: CLP

Prep Method: SW846 3520C Prep Aliquot: 969.8 mL

CAS No. Parmname Qual Result Units EDL PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1330	2060	pg/L	64.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1260	2060	pg/L	61.1	(26%-138%)
37Cl-2,3,7,8-TCDD		157	206	pg/L	76.3	(35%-197%)

Comments:

- B The target analyte was detected in the associated blank.
- J Value is estimated
- **K** Estimated Maximum Possible Concentration
- U Analyte was analyzed for, but not detected above the specified detection limit.

Report Date:

Page 1

April 16, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

SDG Number: A1C0750 17896003 Lab Sample ID: 1613B Water **Client Sample: Client ID:**

SW-2(031821) 46547

Batch ID: Run Date: 04/13/2021 01:46 Data File: A10APR21A_7-6

Prep Batch: 46544 **Prep Date:** 08-APR-21

Client: APEX001 03/18/2021 09:00 **Date Collected:** Date Received:

03/24/2021 10:23

EPA Method 1613B CLP

SW846 3520C **Prep Method:** 1036.9 mL **Prep Aliquot:**

Method:

Analyst:

Project: APEX00320 WATER Matrix:

Prep Basis: As Received

HRP750 Instrument: Dilution: 1

EDL PQL CAS No. **Parmname** Qual Result Units 1746-01-6 2,3,7,8-TCDD U 0.961 pg/L 0.961 9.64 U 48.2 40321-76-4 1,2,3,7,8-PeCDD 1.08 pg/L 1.08 U 39227-28-6 1,2,3,4,7,8-HxCDD 1.80 pg/L 1.80 48.2 1,2,3,6,7,8-HxCDD U 57653-85-7 1.71 pg/L 1.71 48.2 19408-74-3 1,2,3,7,8,9-HxCDD JK 2.04 pg/L 1.77 48.2 35822-46-9 1,2,3,4,6,7,8-HpCDD 1 44.5 pg/L 5.38 48.2 3268-87-9 1,2,3,4,6,7,8,9-OCDD 807 pg/L 10.2 96.4 51207-31-9 2,3,7,8-TCDF U 1.07 pg/L 1.07 9.64 U 57117-41-6 1,2,3,7,8-PeCDF 0.729 pg/L 0.729 48.2 57117-31-4 2,3,4,7,8-PeCDF U 0.648 pg/L 0.648 48.2 70648-26-9 1,2,3,4,7,8-HxCDF U 0.548 0.548 48.2 pg/L U 57117-44-9 1,2,3,6,7,8-HxCDF 0.525 pg/L 0.525 48.2 60851-34-5 2,3,4,6,7,8-HxCDF U pg/L 0.538 48.2 0.538 72918-21-9 1,2,3,7,8,9-HxCDF U 0.799 0.799 48.2 pg/L 67562-39-4 1,2,3,4,6,7,8-HpCDF BJK 1.20 pg/L 0.785 48.2 pg/L 55673-89-7 1,2,3,4,7,8,9-HpCDF U 1.22 1.22 48.2 39001-02-0 1,2,3,4,6,7,8,9-OCDF BJK 2.58 4.11 pg/L 96.4 U 41903-57-5 Total TeCDD 0.961 pg/L 0.961 9.64 36088-22-9 Total PeCDD BJK 1.83 pg/L 1.08 48.2 Total HxCDD BJK 34465-46-8 19.5 pg/L 1.71 48.2 37871-00-4 Total HpCDD 108 pg/L 5.38 48.2 U 30402-14-3 Total TeCDF 1.07 1.07 pg/L 9.64 30402-15-4 Total PeCDF BJ0.772 pg/L 0.397 48.2 55684-94-1 Total HxCDF BJK 1.89 pg/L 0.525 48.2 38998-75-3 Total HpCDF 0.785 48.2 BJK 4.86 pg/L 3333-30-2 TEQ WHO2005 ND=0 with EMPCs 0.905 pg/L pg/L 3333-30-3 TEQ WHO2005 ND=0.5 with EMPCs 2.39

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1460	1930	pg/L	75.7	(25%-164%)
13C-1,2,3,7,8-PeCDD		1400	1930	pg/L	72.7	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1170	1930	pg/L	60.7	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1440	1930	pg/L	74.9	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1470	1930	pg/L	76.2	(23%-140%)
13C-OCDD		2480	3860	pg/L	64.3	(17%-157%)
13C-2,3,7,8-TCDF		1480	1930	pg/L	76.7	(24%-169%)
13C-1,2,3,7,8-PeCDF		1520	1930	pg/L	78.8	(24%-185%)
13C-2,3,4,7,8-PeCDF		1500	1930	pg/L	77.5	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1290	1930	pg/L	66.7	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1400	1930	pg/L	72.6	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1400	1930	pg/L	72.8	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1410	1930	pg/L	72.9	(29%-147%)

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary Page 2

Dilution:

1

of 2

SDG Number: A1C0750 Client: APEX001 Project: APEX00320 Lab Sample ID: 17896003 Date Collected: 03/18/2021 09:00 Matrix: WATER

Client Sample: 1613B Water Date Received: 03/24/2021 10:23

Client ID: SW-2(031821) Prep Basis: As Received Batch ID: 46547 Method: EPA Method 1613B Run Date: 04/13/2021 01:46 Analyst: CLP Instrument: HRP750

 Data File:
 A10APR21A_7-6

 Prep Batch:
 46544
 Prep Method:
 SW846 3520C

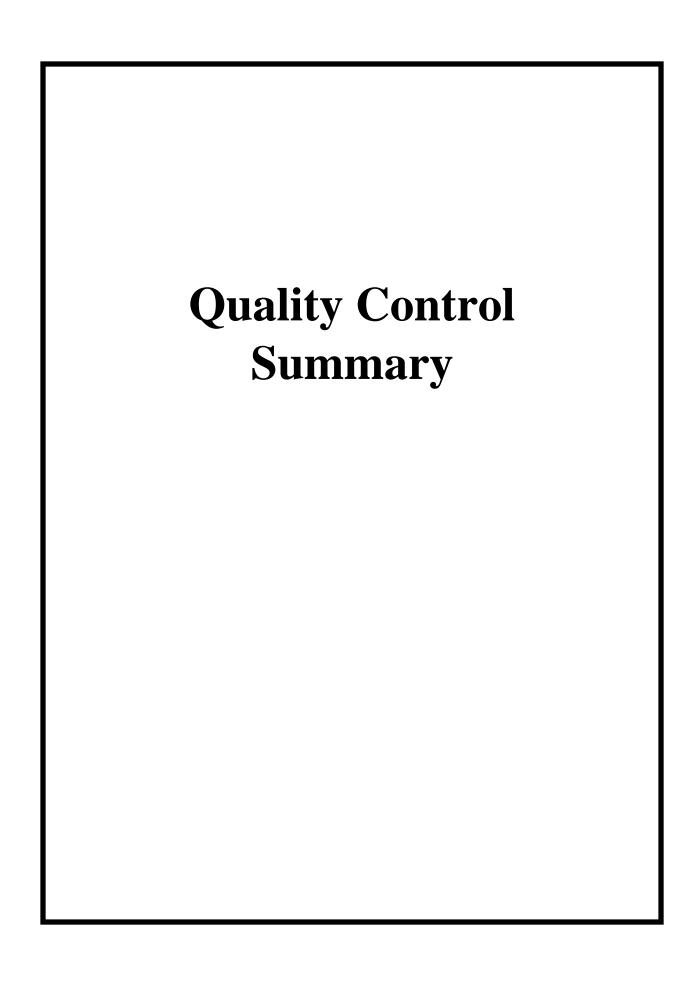
 Prep Date:
 08-APR-21
 Prep Aliquot:
 1036.9 mL

CAS No. Parmname Qual Result Units EDL PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1410	1930	pg/L	73.0	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1420	1930	pg/L	73.8	(26%-138%)
37Cl-2,3,7,8-TCDD		164	193	pg/L	84.8	(35%-197%)

Comments:

- B The target analyte was detected in the associated blank.
- J Value is estimated
- **K** Estimated Maximum Possible Concentration
- U Analyte was analyzed for, but not detected above the specified detection limit.



Report Date: April 16, 2021 Page 1

of 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A1C0750 Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
2029050	LCS for batch 46544	13C-2,3,7,8-TCDD		86.3	(20%-175%)
		13C-1,2,3,7,8-PeCDD		88.4	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		72.7	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		83.0	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		88.7	(22%-166%)
		13C-OCDD		74.7	(13%-199%)
		13C-2,3,7,8-TCDF		84.7	(22%-152%)
		13C-1,2,3,7,8-PeCDF		91.2	(21%-192%)
		13C-2,3,4,7,8-PeCDF		90.4	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		76.3	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		80.8	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		80.0	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		79.8	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		81.0	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		80.9	(20%-186%)
		37Cl-2,3,7,8-TCDD		89.2	(31%-191%)
2029051	LCSD for batch 46544	13C-2,3,7,8-TCDD		76.1	(20%-175%)
		13C-1,2,3,7,8-PeCDD		80.8	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		69.4	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		79.3	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		86.5	(22%-166%)
		13C-OCDD		78.6	(13%-199%)
		13C-2,3,7,8-TCDF		79.0	(22%-152%)
		13C-1,2,3,7,8-PeCDF		83.1	(21%-192%)
		13C-2,3,4,7,8-PeCDF		81.4	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		73.8	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		80.2	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		76.1	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		79.3	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		77.5	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		81.0	(20%-186%)
		37Cl-2,3,7,8-TCDD		78.4	(31%-191%)
2029049	MB for batch 46544	13C-2,3,7,8-TCDD		84.8	(25%-164%)
		13C-1,2,3,7,8-PeCDD		82.4	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		68.6	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		77.7	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		85.1	(23%-140%)
		13C-OCDD		75.2	(17%-157%)
		13C-2,3,7,8-TCDF		83.0	(24%-169%)
		13C-1,2,3,7,8-PeCDF		82.2	(24%-185%)
		13C-2,3,4,7,8-PeCDF		85.1	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		73.7	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		79.0	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		77.8	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		79.7	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		76.7	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		79.1	(26%-138%)
		37C1-2,3,7,8-TCDD		85.6	(35%-197%)

of 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A1C0750 Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
7896001	SW-1(031821)	13C-1,2,3,7,8-PeCDD		73.2	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		64.1	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		71.7	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		79.2	(23%-140%)
		13C-OCDD		70.0	(17%-157%)
		13C-2,3,7,8-TCDF		72.7	(24%-169%)
		13C-1,2,3,7,8-PeCDF		75.3	(24%-185%)
		13C-2,3,4,7,8-PeCDF		74.4	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		67.3	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		72.2	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		71.0	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		72.2	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		73.4	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		73.4	(26%-138%)
		37Cl-2,3,7,8-TCDD		81.0	(35%-197%)
896002	SW-1-DUP(031821)	13C-2,3,7,8-TCDD		63.3	(25%-164%)
		13C-1,2,3,7,8-PeCDD		60.9	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		53.7	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		67.2	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		66.9	(23%-140%)
		13C-OCDD		58.5	(17%-157%)
		13C-2,3,7,8-TCDF		63.4	(24%-169%)
		13C-1,2,3,7,8-PeCDF		63.5	(24%-185%)
		13C-2,3,4,7,8-PeCDF		60.6	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		60.5	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		65.8	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		65.3	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		60.3	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		64.7	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		61.1	(26%-138%)
		37Cl-2,3,7,8-TCDD		76.3	(35%-197%)
896003	SW-2(031821)	13C-2,3,7,8-TCDD		75.7	(25%-164%)
		13C-1,2,3,7,8-PeCDD		72.7	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		60.7	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		74.9	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		76.2	(23%-140%)
		13C-OCDD		64.3	(17%-157%)
		13C-2,3,7,8-TCDF		76.7	(24%-169%)
		13C-1,2,3,7,8-PeCDF		78.8	(24%-185%)
		13C-2,3,4,7,8-PeCDF		77.5	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		66.7	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		72.6	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		72.8	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		72.9	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		73.0	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		73.8	(26%-138%)
		37Cl-2,3,7,8-TCDD		84.8	(35%-197%)

^{*} Recovery outside Acceptance Limits

Report Date: April 16, 2021

Page 3

of 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A1C0750 Matrix Type: LIQUID

Surrogate QUAL Recovery Acceptance (%) Limits

Client ID

D Sample Diluted

Sample ID

^{*} Recovery outside Acceptance Limits

[#] Column to be used to flag recovery values

Page 1

of 2

Hi-Res Dioxins/Furans

Quality Control Summary Spike Recovery Report

SDG Number: A1C0750 Sample Type: Laboratory Control Sample

Client ID: LCS for batch 46544 Matrix: WATER

Lab Sample ID: 12029050

Instrument: HRP750 Analysis Date: 04/12/2021 21:37 Dilution: 1

Analyst: CLP Prep Batch ID:46544

Batch ID: 46547

			Amount Added	Spike Conc.	Dogovowy	Acceptance
CAS No.		Parmname	pg/L	pg/L	%	Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	185	92.6	67-158
40321-76-4	LCS	1,2,3,7,8-PeCDD	1000	1040	104	70-142
39227-28-6	LCS	1,2,3,4,7,8-HxCDD	1000	1010	101	70-164
57653-85-7	LCS	1,2,3,6,7,8-HxCDD	1000	1030	103	76-134
19408-74-3	LCS	1,2,3,7,8,9-HxCDD	1000	1040	104	64-162
35822-46-9	LCS	1,2,3,4,6,7,8-HpCDD	1000	948	94.8	70-140
3268-87-9	LCS	1,2,3,4,6,7,8,9-OCDD	2000	1900	95.2	78-144
1207-31-9	LCS	2,3,7,8-TCDF	200	188	94.1	75-158
7117-41-6	LCS	1,2,3,7,8-PeCDF	1000	934	93.4	80-134
7117-31-4	LCS	2,3,4,7,8-PeCDF	1000	946	94.6	68-160
0648-26-9	LCS	1,2,3,4,7,8-HxCDF	1000	914	91.4	72-134
57117-44-9	LCS	1,2,3,6,7,8-HxCDF	1000	905	90.5	84-130
60851-34-5	LCS	2,3,4,6,7,8-HxCDF	1000	894	89.4	70-156
72918-21-9	LCS	1,2,3,7,8,9-HxCDF	1000	899	89.9	78-130
7562-39-4	LCS	1,2,3,4,6,7,8-HpCDF	1000	884	88.4	82-122
55673-89-7	LCS	1,2,3,4,7,8,9-HpCDF	1000	890	89	78-138
39001-02-0	LCS	1,2,3,4,6,7,8,9-OCDF	2000	1820	90.9	63-170

Report Date:

Page 2

April 16, 2021

of 2

Hi-Res Dioxins/Furans

Quality Control Summary Spike Recovery Report

SDG Number: A1C0750 Sample Type: Laboratory Control Sample Duplicate

Client ID: LCSD for batch 46544 Matrix: WATER

Lab Sample ID: 12029051

Instrument: HRP750 Analysis Date: 04/12/2021 22:26 Dilution: 1

Analyst: CLP Prep Batch ID:46544

Batch ID: 46547

			Amount Added	Spike Conc.	Recovery	Acceptance	RPD	Acceptance
CAS No.		Parmname	pg/L	pg/L	%	Limits	%	Limits
1746-01-6	LCSD	2,3,7,8-TCDD	200	184	92	67-158	0.618	0-20
40321-76-4	LCSD	1,2,3,7,8-PeCDD	1000	1040	104	70-142	0.158	0-20
39227-28-6	LCSD	1,2,3,4,7,8-HxCDD	1000	1020	102	70-164	0.884	0-20
57653-85-7	LCSD	1,2,3,6,7,8-HxCDD	1000	1040	104	76-134	1.53	0-20
19408-74-3	LCSD	1,2,3,7,8,9-HxCDD	1000	1070	107	64-162	2.94	0-20
35822-46-9	LCSD	1,2,3,4,6,7,8-HpCDD	1000	951	95.1	70-140	0.364	0-20
3268-87-9	LCSD	1,2,3,4,6,7,8,9-OCDD	2000	1890	94.4	78-144	0.850	0-20
51207-31-9	LCSD	2,3,7,8-TCDF	200	184	92.2	75-158	2.02	0-20
57117-41-6	LCSD	1,2,3,7,8-PeCDF	1000	945	94.5	80-134	1.22	0-20
57117-31-4	LCSD	2,3,4,7,8-PeCDF	1000	944	94.4	68-160	0.237	0-20
70648-26-9	LCSD	1,2,3,4,7,8-HxCDF	1000	928	92.8	72-134	1.48	0-20
57117-44-9	LCSD	1,2,3,6,7,8-HxCDF	1000	898	89.8	84-130	0.874	0-20
60851-34-5	LCSD	2,3,4,6,7,8-HxCDF	1000	908	90.8	70-156	1.52	0-20
72918-21-9	LCSD	1,2,3,7,8,9-HxCDF	1000	902	90.2	78-130	0.233	0-20
67562-39-4	LCSD	1,2,3,4,6,7,8-HpCDF	1000	896	89.6	82-122	1.25	0-20
55673-89-7	LCSD	1,2,3,4,7,8,9-HpCDF	1000	887	88.7	78-138	0.425	0-20
39001-02-0	LCSD	1,2,3,4,6,7,8,9-OCDF	2000	1830	91.6	63-170	0.788	0-20

Report Date:

Page 1

April 16, 2021

1 of 1

Method Blank Summary

A1C0750

Client:

APEX001

Matrix: WATER

SDG Number: A1C0750 Client ID: MB for bar Lab Sample ID: 12029049

MB for batch 46544

Instrument ID: HRP750 Prep Date: 08-APR-21 Data File: A10APR21A_7-3 Analyzed: 04/12/21 23:16

Column:

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed	
01 LCS for batch 46544	12029050	A10APR21A_7-1	04/12/21	2137	
02 LCSD for batch 46544	12029051	A10APR21A_7-2	04/12/21	2226	
03 SW-1(031821)	17896001	A10APR21A_7-4	04/13/21	0006	
04 SW-1-DUP(031821)	17896002	A10APR21A_7-5	04/13/21	0056	
05 SW-2(031821)	17896003	A10APR21A_7-6	04/13/21	0146	

Report Date:

Page 1

April 16, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis **Sample Summary**

CLP

Result

SDG Number: A1C0750 12029049 Lab Sample ID:

Client:

APEX001

Project: Matrix:

APEX00320 WATER

Client Sample: Client ID: Batch ID:

QC for batch 46544

MB for batch 46544

Parmname

46547

Method: Analyst:

Qual

EPA Method 1613B

Prep Basis:

As Received

Run Date: Data File:

CAS No.

55684-94-1

38998-75-3

3333-30-2

3333-30-3

Total HxCDF

Total HpCDF

TEQ WHO2005 ND=0 with EMPCs

TEQ WHO2005 ND=0.5 with EMPCs

04/12/2021 23:16 A10APR21A_7-3

SW846 3520C Prep Method:

Instrument: Dilution:

EDL

Units

pg/L

pg/L

pg/L pg/L

0.540

0.620

50.0

50.0

HRP750 1

PQL

Prep Batch: 46544 **Prep Date:**

08-APR-21

1000 mL

Prep Aliquot:

1746-01-6 2,3,7,8-TCDD U 1.01 pg/L 1.01 10.0 JK 40321-76-4 1,2,3,7,8-PeCDD 0.780 pg/L 0.644 50.0 39227-28-6 1,2,3,4,7,8-HxCDD U 1.29 pg/L 1.29 50.0 1,2,3,6,7,8-HxCDD U 57653-85-7 1.23 pg/L 1.23 50.0 19408-74-3 U 1,2,3,7,8,9-HxCDD 1.27 pg/L 1.27 50.0 U 35822-46-9 1,2,3,4,6,7,8-HpCDD 1.48 pg/L 1.48 50.0 pg/L 3268-87-9 1,2,3,4,6,7,8,9-OCDD JK 3.34 1.32 100 51207-31-9 2,3,7,8-TCDF U 0.774 pg/L 0.774 10.0 57117-41-6 1,2,3,7,8-PeCDF JK 1.04 pg/L 0.636 50.0 57117-31-4 2,3,4,7,8-PeCDF JK 1.02 pg/L 0.574 50.0 70648-26-9 1,2,3,4,7,8-HxCDF JK 0.860 0.540 50.0 pg/L 57117-44-9 1,2,3,6,7,8-HxCDF J 0.700 pg/L 0.560 50.0 60851-34-5 2,3,4,6,7,8-HxCDF J 0.820 pg/L 0.558 50.0 72918-21-9 1,2,3,7,8,9-HxCDF JK 1.10 0.822 50.0 pg/L JK 67562-39-4 1,2,3,4,6,7,8-HpCDF 0.820 pg/L 0.620 50.0 pg/L 55673-89-7 1,2,3,4,7,8,9-HpCDF JK 1.16 0.946 50.0 39001-02-0 1,2,3,4,6,7,8,9-OCDF 1.97 100 J 2.30 pg/L U 41903-57-5 Total TeCDD 1.01 pg/L 1.01 10.0 JK 36088-22-9 Total PeCDD 2.18 pg/L 0.644 50.0 Total HxCDD JK 34465-46-8 8.02 pg/L 1.23 50.0 37871-00-4 Total HpCDD U 1.48 pg/L 1.48 50.0 U 30402-14-3 Total TeCDF 0.774 0.774 10.0 pg/L 30402-15-4 Total PeCDF JK 2.06 pg/L 0.574 50.0

3.48

1.98

1.49

2.23

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1700	2000	pg/L	84.8	(25%-164%)
13C-1,2,3,7,8-PeCDD		1650	2000	pg/L	82.4	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1370	2000	pg/L	68.6	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1550	2000	pg/L	77.7	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1700	2000	pg/L	85.1	(23%-140%)
13C-OCDD		3010	4000	pg/L	75.2	(17%-157%)
13C-2,3,7,8-TCDF		1660	2000	pg/L	83.0	(24%-169%)
13C-1,2,3,7,8-PeCDF		1640	2000	pg/L	82.2	(24%-185%)
13C-2,3,4,7,8-PeCDF		1700	2000	pg/L	85.1	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1470	2000	pg/L	73.7	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1580	2000	pg/L	79.0	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1560	2000	pg/L	77.8	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1590	2000	pg/L	79.7	(29%-147%)

JK

JK

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

CLP

EPA Method 1613B

Page 2

As Received

HRP750

1

Prep Basis:

Instrument:

Dilution:

of 2

SDG Number: A1C0750 Client: APEX001 Project: APEX00320 Lab Sample ID: 12029049 Matrix: WATER

Client Sample: QC for batch 46544
Client ID: MB for batch 46544

Batch ID: 46547

Run Date: 04/12/2021 23:16

Data File: A10APR21A_7-3 Prep Batch: 46544

08-APR-21

Prep Method: SW846 3520C Prep Aliquot: 1000 mL

CAS No. Parmname Qual Result Units EDL PQL

Method:

Analyst:

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1530	2000	pg/L	76.7	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1580	2000	pg/L	79.1	(26%-138%)
37Cl-2,3,7,8-TCDD		171	200	pg/L	85.6	(35%-197%)

Comments:

Prep Date:

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for, but not detected above the specified detection limit.

Report Date:

Page 1

April 16, 2021

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1C0750 Client: APEX001 **Project:** APEX00320 SDG Number: 12029050 WATER Lab Sample ID: Matrix:

QC for batch 46544 **Client Sample:**

Client ID: LCS for batch 46544 **Batch ID:** 46547

Run Date: 04/12/2021 21:37

Data File: A10APR21A_7-1 **Prep Batch:** 46544

Method: EPA Method 1613B

Analyst: CLP

SW846 3520C **Prep Method:** Prep Aliquot: $1000 \ mL$

Prep Basis: As Received

Instrument: HRP750 Dilution: 1

Prep Date:	08-APR-21	Prep Aliquot:	1000 mL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		185	pg/L	1.16	10.0
40321-76-4	1,2,3,7,8-PeCDD		1040	pg/L	2.68	50.0
39227-28-6	1,2,3,4,7,8-HxCDD		1010	pg/L	4.38	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		1030	pg/L	4.24	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1040	pg/L	4.36	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		948	pg/L	7.20	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1900	pg/L	12.5	100
51207-31-9	2,3,7,8-TCDF		188	pg/L	1.14	10.0
57117-41-6	1,2,3,7,8-PeCDF		934	pg/L	3.24	50.0
57117-31-4	2,3,4,7,8-PeCDF		946	pg/L	2.94	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		914	pg/L	4.92	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		905	pg/L	4.82	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		894	pg/L	4.84	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		899	pg/L	7.00	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		884	pg/L	5.18	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		890	pg/L	7.92	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		1820	pg/L	10.7	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1730	2000	pg/L	86.3	(20%-175%)
13C-1,2,3,7,8-PeCDD		1770	2000	pg/L	88.4	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1450	2000	pg/L	72.7	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1660	2000	pg/L	83.0	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1770	2000	pg/L	88.7	(22%-166%)
13C-OCDD		2990	4000	pg/L	74.7	(13%-199%)
13C-2,3,7,8-TCDF		1690	2000	pg/L	84.7	(22%-152%)
13C-1,2,3,7,8-PeCDF		1820	2000	pg/L	91.2	(21%-192%)
13C-2,3,4,7,8-PeCDF		1810	2000	pg/L	90.4	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1530	2000	pg/L	76.3	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1620	2000	pg/L	80.8	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1600	2000	pg/L	80.0	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1600	2000	pg/L	79.8	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1620	2000	pg/L	81.0	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1620	2000	pg/L	80.9	(20%-186%)
37Cl-2,3,7,8-TCDD		178	200	pg/L	89.2	(31%-191%)

Comments:

Analyte was analyzed for, but not detected above the specified detection limit.

Report Date:

As Received

HRP750

1

Prep Basis:

Instrument:

Dilution:

Page 1

April 16, 2021

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1C0750 Client: APEX001 APEX00320 SDG Number: **Project:** 12029051 WATER Lab Sample ID: Matrix:

QC for batch 46544 **Client Sample:** LCSD for batch 46544

Client ID: Batch ID: 46547

04/12/2021 22:26 **Run Date:**

Data File: A10APR21A_7-2 46544 Prep Batch:

Method: EPA Method 1613B

Analyst: CLP

SW846 3520C **Prep Method:**

Prep Date:	08-APR-21	Prep Aliquot:	1000 mL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		184	pg/L	0.902	10.0
40321-76-4	1,2,3,7,8-PeCDD		1040	pg/L	1.90	50.0
39227-28-6	1,2,3,4,7,8-HxCDD		1020	pg/L	4.24	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		1040	pg/L	3.98	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1070	pg/L	4.16	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		951	pg/L	5.88	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1890	pg/L	10.2	100
51207-31-9	2,3,7,8-TCDF		184	pg/L	1.06	10.0
57117-41-6	1,2,3,7,8-PeCDF		945	pg/L	3.96	50.0
57117-31-4	2,3,4,7,8-PeCDF		944	pg/L	3.78	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		928	pg/L	4.14	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		898	pg/L	4.26	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		908	pg/L	4.48	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		902	pg/L	6.34	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		896	pg/L	4.86	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		887	pg/L	7.26	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		1830	pg/L	11.6	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1520	2000	pg/L	76.1	(20%-175%)
13C-1,2,3,7,8-PeCDD		1620	2000	pg/L	80.8	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1390	2000	pg/L	69.4	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1590	2000	pg/L	79.3	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1730	2000	pg/L	86.5	(22%-166%)
13C-OCDD		3140	4000	pg/L	78.6	(13%-199%)
13C-2,3,7,8-TCDF		1580	2000	pg/L	79.0	(22%-152%)
13C-1,2,3,7,8-PeCDF		1660	2000	pg/L	83.1	(21%-192%)
13C-2,3,4,7,8-PeCDF		1630	2000	pg/L	81.4	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1480	2000	pg/L	73.8	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1600	2000	pg/L	80.2	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1520	2000	pg/L	76.1	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1590	2000	pg/L	79.3	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1550	2000	pg/L	77.5	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1620	2000	pg/L	81.0	(20%-186%)
37Cl-2,3,7,8-TCDD		157	200	pg/L	78.4	(31%-191%)

Comments:

Analyte was analyzed for, but not detected above the specified detection limit.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Tuesday, April 27, 2021 Kyle Haggart GeoDesign, Inc. 9450 SW Commerce Circle Wilsonville, OR 97070

RE: A1C1109 - Former Automatic Vending Co. - BCSAmerica-1-02

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A1C1109, which was received by the laboratory on 3/29/2021 at 7:30:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1 3.9 degC Cooler #3 0.1 degC Cooler #2

2.6 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.





Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	ORMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1(032821)	A1C1109-01	Water	03/28/21 15:55	03/29/21 07:30
SW-2(032821)	A1C1109-02	Water	03/28/21 16:00	03/29/21 07:30
SW-2-DUP(032821)	A1C1109-03	Water	03/28/21 16:05	03/29/21 07:30
SW-1-TB(032821)	A1C1109-04	Water	03/28/21 00:00	03/29/21 07:30
SW-2-TB(032821)	A1C1109-05	Water	03/28/21 00:00	03/29/21 07:30
SW-2-DUP-TB(032821)	A1C1109-06	Water	03/28/21 00:00	03/29/21 07:30

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	il Hydrocar	bons by NWTPI	H-Dx			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(032821) (A1C1109-01)				Matrix: Wate	er	Batch:	1040078	
Diesel	ND	0.0952	0.190	mg/L	1	04/02/21 23:06	NWTPH-Dx	
Oil	ND	0.190	0.381	mg/L	1	04/02/21 23:06	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 96 %	Limits: 50-150 %	1	04/02/21 23:06	NWTPH-Dx	
SW-2(032821) (A1C1109-02)				Matrix: Wate	er	Batch:		
Diesel	0.306	0.0935	0.187	mg/L	1	04/02/21 23:28	NWTPH-Dx	F-11
Oil	ND	0.187	0.374	mg/L	1	04/02/21 23:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 98 %	Limits: 50-150 %	1	04/02/21 23:28	NWTPH-Dx	
SW-2-DUP(032821) (A1C1109-03)				Matrix: Wate	er	Batch:	1040078	
Diesel	0.266	0.0935	0.187	mg/L	1	04/02/21 23:50	NWTPH-Dx	F-11
Oil	ND	0.187	0.374	mg/L	1	04/02/21 23:50	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 97 %	Limits: 50-150 %	1	04/02/21 23:50	NWTPH-Dx	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 3 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons (Benzene tl	nrough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(032821) (A1C1109-01)				Matrix: Wate	er	Batch	: 1031194	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	03/31/21 17:15	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ry: 113 %	Limits: 50-150 %	1	03/31/21 17:15	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			98 %	50-150 %	1	03/31/21 17:15	NWTPH-Gx (MS)	
SW-2(032821) (A1C1109-02)				Matrix: Wate	er	Batch	: 1031194	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	03/31/21 17:42	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ry: 112 %	Limits: 50-150 %	1	03/31/21 17:42	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			97 %	50-150 %	1	03/31/21 17:42	NWTPH-Gx (MS)	
SW-2-DUP(032821) (A1C1109-03)				Matrix: Wate	er	Batch		
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	03/31/21 18:09	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ry: 112 %	Limits: 50-150 %	1	03/31/21 18:09	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			98 %	50-150 %	1	03/31/21 18:09	NWTPH-Gx (MS)	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
6W-1(032821) (A1C1109-01)				Matrix: Wa	ater	Batch:	1031194	
Acetone	ND	10.0	20.0	ug/L	1	03/31/21 17:15	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:15	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/31/21 17:15	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/31/21 17:15	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
tert-Butylbenzene	ND	1.00	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/31/21 17:15	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:15	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	03/31/21 17:15	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:15	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:15	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:15	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/31/21 17:15	EPA 8260D	
-Hexanone	ND	5.00	10.0	ug/L	1	03/31/21 17:15	EPA 8260D	
sopropylbenzene	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
l-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/31/21 17:15	EPA 8260D	
-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/31/21 17:15	EPA 8260D	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-1(032821) (A1C1109-01)				Matrix: Wate	er	Batch:	1031194	
Naphthalene	ND	1.00	2.00	ug/L	1	03/31/21 17:15	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:15	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/31/21 17:15	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/31/21 17:15	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/31/21 17:15	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/31/21 17:15	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/31/21 17:15	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/31/21 17:15	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	: 115 %	Limits: 80-120 %	1	03/31/21 17:15	EPA 8260D	
Toluene-d8 (Surr)			94 %	80-120 %	1	03/31/21 17:15	EPA 8260D	
4-Bromofluorobenzene (Surr)			101 %	80-120 %	1	03/31/21 17:15	EPA 8260D	
SW-2(032821) (A1C1109-02)				Matrix: Wate	rix: Water Batch: 1031194			
Acetone	ND	10.0	20.0	ug/L	1	03/31/21 17:42	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:42	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/31/21 17:42	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/31/21 17:42	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
tert-Butylbenzene	ND	1.00	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/31/21 17:42	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:42	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	03/31/21 17:42	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:42	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 6 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	V	olatile Organi	c Compou	nds by EPA 826	0D			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-2(032821) (A1C1109-02)				Matrix: Wate	r	Batch:	1031194	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:42	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:42	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/31/21 17:42	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/31/21 17:42	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/31/21 17:42	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/31/21 17:42	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	03/31/21 17:42	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/31/21 17:42	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/31/21 17:42	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/31/21 17:42	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/31/21 17:42	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/31/21 17:42	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/31/21 17:42	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/31/21 17:42	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ry: 115 %	Limits: 80-120 %	1	03/31/21 17:42	EPA 8260D	
Toluene-d8 (Surr)			92 %	80-120 %		03/31/21 17:42	EPA 8260D	
4-Bromofluorobenzene (Surr)			103 %	80-120 %	1	03/31/21 17:42	EPA 8260D	
SW-2-DUP(032821) (A1C1109-03)				Matrix: Wate	er	Batch:	1031194	
Acetone	ND	20.0	20.0	ug/L	1	03/31/21 18:09	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	03/31/21 18:09	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	03/31/21 18:09	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	03/31/21 18:09	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

		olatile Organ	ic compoun	ds by EPA 826	עטי			
Amalista	Sample	Detection	Reporting	T.T**	D:1	Date	Mada 1D C	NT /
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-2-DUP(032821) (A1C1109-03)				Matrix: Wate	∍r	Batch:	1031194	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
tert-Butylbenzene	ND	1.00	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	03/31/21 18:09	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 18:09	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	03/31/21 18:09	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 18:09	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 18:09	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	03/31/21 18:09	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	03/31/21 18:09	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	03/31/21 18:09	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	03/31/21 18:09	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	03/31/21 18:09	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	03/31/21 18:09	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	03/31/21 18:09	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	03/31/21 18:09	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	03/31/21 18:09	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/31/21 18:09	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	03/31/21 18:09	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	03/31/21 18:09	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	03/31/21 18:09	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			ery: 118 %	Limits: 80-120 %	6 <i>1</i>	03/31/21 18:09	EPA 8260D	
Sarrogane. 1,4-Dijiuorovenzene (SUFF)		песоч	y. 110/0		. 1	05/31/21 10:09	ыл 0200D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 8 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D										
Analyte	Sample Result	Detection Limit	Reporting Limit	Uı	nits	Dilution	Date Analyzed	Method Ref.	Notes	
SW-2-DUP(032821) (A1C1109-03)				Matr	ix: Wate	er	Batch:	1031194		
Surrogate: Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr)		Recov	ery: 93 % 103 %		80-120 % 80-120 %		03/31/21 18:09 03/31/21 18:09	EPA 8260D EPA 8260D		

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 9 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	Vol	atile Organic	Compound	s by EPA 8260D	SIM			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(032821) (A1C1109-01)				Matrix: Wate	r	Batch:	1040059	
Benzene	ND	0.0500	0.100	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
o-Xylene	ND	0.0500	0.100	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/02/21 14:36	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 103 %	Limits: 80-120 %	1	04/02/21 14:36	EPA 8260D SIM	
Toluene-d8 (Surr)			95 %	80-120 %		04/02/21 14:36	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			95 %	80-120 %	1	04/02/21 14:36	EPA 8260D SIM	
SW-2(032821) (A1C1109-02)				Matrix: Wate	r	Batch:	1040059	
Benzene	ND	0.0500	0.100	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Newberg

Page 10 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	Vol	atile Organic C	ompound	s by EPA 8260[SIM			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-2(032821) (A1C1109-02)				Matrix: Wate	er	Batch:	1040059	
o-Xylene	ND	0.0500	0.100	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/02/21 15:03	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery.	104 %	Limits: 80-120 %	5 1	04/02/21 15:03	EPA 8260D SIM	
Toluene-d8 (Surr)			95 %	80-120 %	5 1	04/02/21 15:03	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			94 %	80-120 %	1	04/02/21 15:03	EPA 8260D SIM	
SW-2-DUP(032821) (A1C1109-03)				Matrix: Wate	er	Batch:	1040059	
Benzene	ND	0.0500	0.100	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
o-Xylene	ND	0.0500	0.100	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	04/02/21 15:29	EPA 8260D SIM	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	Vol	atile Organic	Compound	s by EPA 8260[SIM			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-2-DUP(032821) (A1C1109-03)				Matrix: Wate	er	Batch:	Batch: 1040059	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/02/21 15:29	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 103 %	Limits: 80-120 %	5 1	04/02/21 15:29	EPA 8260D SIM	
Toluene-d8 (Surr)			94 %	80-120 %	<i>i I</i>	04/02/21 15:29	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			94 %	80-120 %	5 1	04/02/21 15:29	EPA 8260D SIM	
SW-1-TB(032821) (A1C1109-04)				Matrix: Wate	er	Batch:	1040059	
Benzene	ND	0.0500	0.100	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
o-Xylene	ND	0.0500	0.100	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 12 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

			•	s by EPA 8260[. J.IVI			
Analyta	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Mathed Dof	Mat-
Analyte	Resuit	Limit	Limit			•	Method Ref.	Notes
SW-1-TB(032821) (A1C1109-04)				Matrix: Water		Batch: 1040059		
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/02/21 13:15	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 103 %	Limits: 80-120 %	5 1	04/02/21 13:15	EPA 8260D SIM	
Toluene-d8 (Surr)			92 %	80-120 %	<i>i</i> 1	04/02/21 13:15	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			96 %	80-120 %	5 1	04/02/21 13:15	EPA 8260D SIM	
SW-2-TB(032821) (A1C1109-05)				Matrix: Wate	er	Batch:	1040059	
Benzene	ND	0.0500	0.100	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
o-Xylene	ND	0.0500	0.100	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM	
1,2-Dichioropropane	ND	0.0100	0.0200	ug/L	1	04/02/21 15:42	LFA 6200D SIM	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Newberg

Page 13 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	Volatile Organic Compounds by EPA 8260D SIM												
	Sample	Detection	Reporting			Date							
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes					
SW-2-TB(032821) (A1C1109-05)				Matrix: Wate	er	Batch:	1040059						
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM						
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM						
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM						
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM						
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM						
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM						
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM						
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/02/21 13:42	EPA 8260D SIM						
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/02/21 13:42	EPA 8260D SIM						
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	·: 103 %	Limits: 80-120 %	1	04/02/21 13:42	EPA 8260D SIM						
Toluene-d8 (Surr)			95 %	80-120 %		04/02/21 13:42	EPA 8260D SIM						
4-Bromofluorobenzene (Surr)			96 %	80-120 %	1	04/02/21 13:42	EPA 8260D SIM						
SW-2-DUP-TB(032821) (A1C1109-06)				Matrix: Wate	er	Batch:	1040059						
Benzene	ND	0.0500	0.100	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
Toluene	ND	0.0500	0.100	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
o-Xylene	ND	0.0500	0.100	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
Chloroform	ND	0.0500	0.100	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM						

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	Vola	tile Organic	Compound	ls by EPA 82600	SIM			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-2-DUP-TB(032821) (A1C1109-06)				Matrix: Wate)r	Batch:	: 1040059	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/02/21 14:09	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/02/21 14:09	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 103 %	Limits: 80-120 %	1	04/02/21 14:09	EPA 8260D SIM	
Toluene-d8 (Surr)			95 %	80-120 %	1	04/02/21 14:09	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			96 %	80-120 %	i = 1	04/02/21 14:09	EPA 8260D SIM	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 15 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

		Polychlorinate	d Bipheny	ls by EPA 8082	2A			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Note
SW-1(032821) (A1C1109-01)				Matrix: Wate	er	Batch:	1040065	C-07
Aroclor 1016	ND	0.0200	0.0400	ug/L	1	04/05/21 08:26	EPA 8082A	
Aroclor 1221	ND	0.0200	0.0400	ug/L	1	04/05/21 08:26	EPA 8082A	
Aroclor 1232	ND	0.0200	0.0400	ug/L	1	04/05/21 08:26	EPA 8082A	
Aroclor 1242	ND	0.0200	0.0400	ug/L	1	04/05/21 08:26	EPA 8082A	
Aroclor 1248	ND	0.0200	0.0400	ug/L	1	04/05/21 08:26	EPA 8082A	
Aroclor 1254	ND	0.0200	0.0400	ug/L	1	04/05/21 08:26	EPA 8082A	
Aroclor 1260	ND	0.0200	0.0400	ug/L	1	04/05/21 08:26	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recove	ry: 85 %	Limits: 40-135 %	5 1	04/05/21 08:26	EPA 8082A	
SW-2(032821) (A1C1109-02)				Matrix: Wate	er	Batch:	1040065	C-07
Aroclor 1016	ND	0.0187	0.0374	ug/L	1	04/05/21 08:43	EPA 8082A	
Aroclor 1221	ND	0.0187	0.0374	ug/L	1	04/05/21 08:43	EPA 8082A	
Aroclor 1232	ND	0.0187	0.0374	ug/L	1	04/05/21 08:43	EPA 8082A	
Aroclor 1242	ND	0.0187	0.0374	ug/L	1	04/05/21 08:43	EPA 8082A	
Aroclor 1248	ND	0.0187	0.0374	ug/L	1	04/05/21 08:43	EPA 8082A	
Aroclor 1254	ND	0.0187	0.0374	ug/L	1	04/05/21 08:43	EPA 8082A	
Aroclor 1260	ND	0.0187	0.0374	ug/L	1	04/05/21 08:43	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recove	ry: 82 %	Limits: 40-135 %	5 1	04/05/21 08:43	EPA 8082A	
W-2-DUP(032821) (A1C1109-03)				Matrix: Wate	er	Batch:	1040065	C-07
Aroclor 1016	ND	0.0187	0.0374	ug/L	1	04/05/21 09:01	EPA 8082A	
Aroclor 1221	ND	0.0187	0.0374	ug/L	1	04/05/21 09:01	EPA 8082A	
Aroclor 1232	ND	0.0187	0.0374	ug/L	1	04/05/21 09:01	EPA 8082A	
Aroclor 1242	ND	0.0187	0.0374	ug/L	1	04/05/21 09:01	EPA 8082A	
Aroclor 1248	ND	0.0187	0.0374	ug/L	1	04/05/21 09:01	EPA 8082A	
Aroclor 1254	ND	0.0187	0.0374	ug/L	1	04/05/21 09:01	EPA 8082A	
Aroclor 1260	ND	0.0187	0.0374	ug/L	1	04/05/21 09:01	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recove	ry: 76 %	Limits: 40-135 %	5 1	04/05/21 09:01	EPA 8082A	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 16 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
W-1(032821) (A1C1109-01RE2)				Matrix: Wate	er	Batch: 1031212		
Acenaphthene	0.0102	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	J
Acenaphthylene	ND	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	
Anthracene	ND	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	
Benz(a)anthracene	ND	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	
Benzo(a)pyrene	0.0176	0.0153	0.0306	ug/L	1	04/01/21 13:53	EPA 8270E	J
Benzo(b)fluoranthene	0.0172	0.0153	0.0306	ug/L	1	04/01/21 13:53	EPA 8270E	J
Benzo(k)fluoranthene	ND	0.0153	0.0306	ug/L	1	04/01/21 13:53	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	
Chrysene	ND	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	
Fluoranthene	ND	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	
Fluorene	ND	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	
1-Methylnaphthalene	ND	0.0204	0.0408	ug/L	1	04/01/21 13:53	EPA 8270E	
2-Methylnaphthalene	ND	0.0204	0.0408	ug/L	1	04/01/21 13:53	EPA 8270E	
Naphthalene	ND	0.0204	0.0408	ug/L	1	04/01/21 13:53	EPA 8270E	
Phenanthrene	0.0117	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	J
Pyrene	0.0106	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	J
Carbazole	ND	0.0153	0.0306	ug/L	1	04/01/21 13:53	EPA 8270E	
Dibenzofuran	ND	0.0102	0.0204	ug/L	1	04/01/21 13:53	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.204	0.408	ug/L	1	04/01/21 13:53	EPA 8270E	
Butyl benzyl phthalate	ND	0.204	0.408	ug/L	1	04/01/21 13:53	EPA 8270E	
Diethylphthalate	ND	0.204	0.408	ug/L	1	04/01/21 13:53	EPA 8270E	
Dimethylphthalate	ND	0.204	0.408	ug/L	1	04/01/21 13:53	EPA 8270E	
Di-n-butylphthalate	ND	0.204	0.408	ug/L	1	04/01/21 13:53	EPA 8270E	
Di-n-octyl phthalate	ND	0.204	0.408	ug/L	1	04/01/21 13:53	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recove	ery: 80 %	Limits: 44-120 %	1	04/01/21 13:53	EPA 8270E	
2-Fluorobiphenyl (Surr)			57 %	44-120 %	1	04/01/21 13:53	EPA 8270E	
Phenol-d6 (Surr)			27 %	10-133 %	1	04/01/21 13:53	EPA 8270E	
p-Terphenyl-d14 (Surr)			77 %	50-134 %	I	04/01/21 13:53	EPA 8270E	
2-Fluorophenol (Surr)			36 %	19-120 %	I	04/01/21 13:53	EPA 8270E	
2,4,6-Tribromophenol (Surr)			80 %	43-140 %	1	04/01/21 13:53	EPA 8270E	
W-2(032821) (A1C1109-02RE1)	2(032821) (A1C1109-02RE1)				er	Batch:	1031212	R-04

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 17 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	Jen	iivoiatile Olyali	ic comp	ounds by EPA 8	LIVL			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-2(032821) (A1C1109-02RE1)				Matrix: Wate	r	Batch:	Batch: 1031212	
Acenaphthene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Acenaphthylene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Anthracene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Benz(a)anthracene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Benzo(a)pyrene	ND	0.0561	0.112	ug/L	4	03/31/21 23:14	EPA 8270E	
Benzo(b)fluoranthene	ND	0.0561	0.112	ug/L	4	03/31/21 23:14	EPA 8270E	
Benzo(k)fluoranthene	ND	0.0561	0.112	ug/L	4	03/31/21 23:14	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Chrysene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Fluoranthene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Fluorene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
1-Methylnaphthalene	ND	0.0748	0.150	ug/L	4	03/31/21 23:14	EPA 8270E	
2-Methylnaphthalene	ND	0.0748	0.150	ug/L	4	03/31/21 23:14	EPA 8270E	
Naphthalene	ND	0.0748	0.150	ug/L	4	03/31/21 23:14	EPA 8270E	
Phenanthrene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Pyrene	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Carbazole	ND	0.0561	0.112	ug/L	4	03/31/21 23:14	EPA 8270E	
Dibenzofuran	ND	0.0374	0.0748	ug/L	4	03/31/21 23:14	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.748	1.50	ug/L	4	03/31/21 23:14	EPA 8270E	
Butyl benzyl phthalate	ND	0.748	1.50	ug/L	4	03/31/21 23:14	EPA 8270E	
Diethylphthalate	ND	0.748	1.50	ug/L	4	03/31/21 23:14	EPA 8270E	
Dimethylphthalate	ND	0.748	1.50	ug/L	4	03/31/21 23:14	EPA 8270E	
Di-n-butylphthalate	ND	0.748	1.50	ug/L	4	03/31/21 23:14	EPA 8270E	
Di-n-octyl phthalate	ND	0.748	1.50	ug/L	4	03/31/21 23:14	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery	: 89 %	Limits: 44-120 %	4	03/31/21 23:14	EPA 8270E	
2-Fluorobiphenyl (Surr)			65 %	44-120 %	4	03/31/21 23:14	EPA 8270E	
Phenol-d6 (Surr)			26 %	10-133 %	4	03/31/21 23:14	EPA 8270E	
p-Terphenyl-d14 (Surr)			63 %	50-134 %	4	03/31/21 23:14	EPA 8270E	
2-Fluorophenol (Surr)			36 %	19-120 %	4	03/31/21 23:14	EPA 8270E	
2,4,6-Tribromophenol (Surr)			89 %	43-140 %	4	03/31/21 23:14	EPA 8270E	

Apex Laboratories

SW-2-DUP(032821) (A1C1109-03RE1)

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Batch: 1031212

Matrix: Water

R-04



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

Sen	nivolatile Orga	nic Compo	ounds by EPA 8	3270E			_
Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
			Matrix: Wate	er_		1031212	R-04
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0561	0.112	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0561	0.112	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0561	0.112	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0748	0.150	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0748	0.150	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0748	0.150	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0561	0.112	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.0374	0.0748	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.748	1.50	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.748	1.50	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.748	1.50	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.748	1.50	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.748	1.50	ug/L	4	04/01/21 13:17	EPA 8270E	
ND	0.748	1.50	ug/L	4	04/01/21 13:17	EPA 8270E	
	Recove	ry: 98%	Limits: 44-120 %	4	04/01/21 13:17	EPA 8270E	
		70 %			04/01/21 13:17	EPA 8270E	
		28 %			04/01/21 13:17	EPA 8270E	
					04/01/21 13:17		
	Sample Result ND	Sample Result Detection Limit ND 0.0374 ND 0.0374 ND 0.0374 ND 0.0374 ND 0.0561 ND 0.0561 ND 0.0374 ND 0.0374 ND 0.0374 ND 0.0374 ND 0.0374 ND 0.0374 ND 0.0748 ND 0.0748 ND 0.0374 ND 0.0374 ND 0.0374 ND 0.0374 ND 0.0374 ND 0.0374 ND 0.048 ND 0.748 ND 0.748 <t< td=""><td>Sample Result Detection Limit Reporting Limit ND 0.0374 0.0748 ND 0.0561 0.112 ND 0.0561 0.112 ND 0.0374 0.0748 ND 0.0748 0.150 ND 0.0748 0.150 ND 0.0748 0.150 ND 0.0374 0.0748 <t< td=""><td> Name</td><td> ND</td><td> ND</td><td> Nample Result Limit Limit Units Dilution Analyzed Method Ref. </td></t<></td></t<>	Sample Result Detection Limit Reporting Limit ND 0.0374 0.0748 ND 0.0561 0.112 ND 0.0561 0.112 ND 0.0374 0.0748 ND 0.0748 0.150 ND 0.0748 0.150 ND 0.0748 0.150 ND 0.0374 0.0748 ND 0.0374 0.0748 <t< td=""><td> Name</td><td> ND</td><td> ND</td><td> Nample Result Limit Limit Units Dilution Analyzed Method Ref. </td></t<>	Name	ND	ND	Nample Result Limit Limit Units Dilution Analyzed Method Ref.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 19 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

		Total Meta	als by EPA 20	0.8 (ICPMS)			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(032821) (A1C1109-01)				Matrix: W	ater			
Batch: 1040156								
Chromium	ND	0.500	1.00	ug/L	1	04/06/21 23:39	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	04/06/21 23:39	EPA 200.8	
Zinc	45.1	2.00	4.00	ug/L	1	04/06/21 23:39	EPA 200.8	
SW-2(032821) (A1C1109-02)				Matrix: W	ater			
Batch: 1040156								
Chromium	ND	0.500	1.00	ug/L	1	04/06/21 23:44	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	04/06/21 23:44	EPA 200.8	
Zinc	41.7	2.00	4.00	ug/L	1	04/06/21 23:44	EPA 200.8	
SW-2-DUP(032821) (A1C1109-03)				Matrix: W	ater			
Batch: 1040156								
Chromium	ND	0.500	1.00	ug/L	1	04/07/21 00:01	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	04/07/21 00:01	EPA 200.8	
Zinc	40.5	2.00	4.00	ug/L	1	04/07/21 00:01	EPA 200.8	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 20 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

	Tot	tal Metals by	EPA 200.8 (IC	PMS) - Lov	/ Level			
Analista	Sample	Detection	Reporting Limit	T.T.	Dile	Date	M-41 - 1D C	N
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-1(032821) (A1C1109-01)				Matrix: Wa	ater			
Batch: 1040504								
Arsenic	0.143	0.0500	0.100	ug/L	1	04/19/21 16:25	EPA 200.8-LL	
SW-1(032821) (A1C1109-01RE1)				Matrix: Wa	ater			
Batch: 1040504	_ 	_ _	_ _	_ _		_ _		
Cadmium	0.0379	0.00900	0.0180	ug/L	1	04/19/21 20:19	EPA 200.8-LL	
SW-2(032821) (A1C1109-02)				Matrix: Wa	ater			
Batch: 1040504								
Arsenic	0.184	0.0500	0.100	ug/L	1	04/19/21 16:46	EPA 200.8-LL	
SW-2(032821) (A1C1109-02RE3)				Matrix: Wa	ater			
Batch: 1040504								
Cadmium	0.0408	0.00900	0.0180	ug/L	1	04/19/21 21:00	EPA 200.8-LL	
SW-2-DUP(032821) (A1C1109-03)				Matrix: Wa	ater			
Batch: 1040504								
Arsenic	0.190	0.0500	0.100	ug/L	1	04/19/21 16:53	EPA 200.8-LL	
SW-2-DUP(032821) (A1C1109-03RE1)				Matrix: Wa	ater			
Batch: 1040504								
Cadmium	0.0379	0.00900	0.0180	ug/L	1	04/19/21 19:58	EPA 200.8-LL	

Apex Laboratories

Philip Manherz

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 21 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

ANALYTICAL SAMPLE RESULTS

		Solid and	Moisture Det	terminations	5			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-1(032821) (A1C1109-01)				Matrix: Wa	ater			
Batch: 1040705								
Total Suspended Solids	8.00	5.00	5.00	mg/L	1	04/22/21 10:49	SM 2540 D	H-06, Q-42
SW-2(032821) (A1C1109-02)				Matrix: Wa	ater			
Batch: 1040705								
Total Suspended Solids	ND	5.00	5.00	mg/L	1	04/22/21 10:49	SM 2540 D	H-06
SW-2-DUP(032821) (A1C1109-03)				Matrix: Wa	ater			
Batch: 1040705								
Total Suspended Solids	ND	5.00	5.00	mg/L	1	04/22/21 10:49	SM 2540 D	H-06

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

		Di	esel and/o	r Oil Hyd	rocarbon	s by NWT	PH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1040078 - EPA 3510C (I	Fuels/Acid	Ext.)					Wat	er				
Blank (1040078-BLK1)			Prepared	1: 04/02/21	12:02 Anal	lyzed: 04/02/	21 22:01					
NWTPH-Dx												
Diesel	ND	0.0909	0.182	mg/L	1							
Oil	ND	0.182	0.364	mg/L	1							
Surr: o-Terphenyl (Surr)		Reco	very: 98 %	Limits: 50	0-150 %	Dilı	tion: 1x					
LCS (1040078-BS1)			Prepared	1: 04/02/21	12:02 Ana	yzed: 04/02/	21 22:23					
NWTPH-Dx												
Diesel	1.14	0.100	0.200	mg/L	1	1.25		91	59-115%			
Surr: o-Terphenyl (Surr)		Reco	very: 97 %	Limits: 50)-150 %	Dilı	tion: 1x					
LCS Dup (1040078-BSD1)			Prepared	1: 04/02/21	12:02 Ana	lyzed: 04/02/	21 22:45					Q-19
NWTPH-Dx												
Diesel	1.24	0.100	0.200	mg/L	1	1.25		99	59-115%	8	30%	
Surr: o-Terphenyl (Surr)		Recov	ery: 102 %	Limits: 50	0-150 %	Dilı	tion: 1x					

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 23 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range H	ydrocarbo	ns (Benz	zene thro	ugh Naphi	thalene) l	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1031194 - EPA 5030B							Wat	er				
Blank (1031194-BLK1)			Prepared	1: 03/31/21	07:30 Anal	lyzed: 03/31/	/21 10:03					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 112 %	Limits: 50	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			98 %	50	0-150 %		"					
LCS (1031194-BS2)			Prepared	1: 03/31/21	07:30 Anal	lyzed: 03/31/	/21 09:36					
NWTPH-Gx (MS)												
Gasoline Range Organics	0.401	0.0500	0.100	mg/L	1	0.500		80	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 108 %	Limits: 50	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			90 %	50	0-150 %		"					
Duplicate (1031194-DUP1)			Prepared	1: 03/31/21	10:00 Ana	lyzed: 03/31/	/21 14:33					
QC Source Sample: Non-SDG (A1	C1160-05)	·		·				·				
Gasoline Range Organics	0.374	0.0500	0.100	mg/L	1		0.359			4	30%	1
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 107 %	Limits: 50	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			97%		0-150 %		,,					

Apex Laboratories

Philip Menherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 24 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Dilution Analyte Result Limit Units Result % REC RPD Limit Amount Limits Limit Notes Batch 1031194 - EPA 5030B Water Blank (1031194-BLK1) Prepared: 03/31/21 07:30 Analyzed: 03/31/21 10:03 EPA 8260D ND 10.0 20.0 ug/L Acetone ND 2.00 1 Acrylonitrile 1.00 ug/L Benzene ND 0.100 0.200 ug/L 1 Bromobenzene ND 0.250 0.500 1 ug/L Bromochloromethane ND 0.500 1.00 1 ug/L Bromodichloromethane ND 0.500 1.00 1 ug/L Bromoform ND 0.500 1.00 1 ug/L Bromomethane 5.00 5.00 ND ug/L 1 2-Butanone (MEK) ND 5.00 10.0 ug/L 1 n-Butylbenzene ND 0.500 1.00 1 ug/L sec-Butylbenzene ND 0.500 1.00 ug/L 1 1.00 ND tert-Butylbenzene 1.00 1 ug/L Carbon disulfide ND 5.00 10.0 ug/L 1 Carbon tetrachloride ND 0.500 1.00 ug/L 1 Chlorobenzene ND 0.250 0.500 ug/L 1 Chloroethane ND 5.00 5.00 ug/L 1 ---------Chloroform ND 0.500 1.00 ug/L 1 ND 2.50 5.00 Chloromethane 1 ug/L 2-Chlorotoluene ND 0.500 1.00 ug/L 1 4-Chlorotoluene ND 0.500 1.00 ug/L 1 ND Dibromochloromethane 0.500 1.00 ug/L 1 1,2-Dibromo-3-chloropropane ND 2.50 5.00 ug/L 1 1,2-Dibromoethane (EDB) ND 0.250 0.500 ug/L 1 ug/L Dibromomethane ND 0.500 1.00 1 0.500 0.250 1,2-Dichlorobenzene ND ug/L 1 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 1,4-Dichlorobenzene ND 0.250 0.500 ug/L 1 Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 1,1-Dichloroethane ND 0.200 0.400ug/L 1 0.200 1,2-Dichloroethane (EDC) ND 0.400ug/L 1 1,1-Dichloroethene ND 0.200 0.400 ug/L 1 cis-1,2-Dichloroethene ND 0.200 0.400 ug/L 1

Apex Laboratories

Philip Menterg

trans-1,2-Dichloroethene

ND

0.200

0.400

ug/L

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 25 of 57

1



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1031194 - EPA 5030B							Wat	er				
Blank (1031194-BLK1)			Prepared	: 03/31/21	07:30 Anal	yzed: 03/31/	21 10:03					
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1							
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1							
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1							
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1							
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
Ethylbenzene	ND	0.250	0.500	ug/L	1							
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1							
2-Hexanone	ND	5.00	10.0	ug/L	1							
Isopropylbenzene	ND	0.500	1.00	ug/L	1							
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1							
Methylene chloride	ND	5.00	10.0	ug/L	1							
1-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1							
Naphthalene	ND	1.00	2.00	ug/L	1							
n-Propylbenzene	ND	0.250	0.500	ug/L	1							
Styrene	ND	0.500	1.00	ug/L	1							
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1							
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1							
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1							
Toluene	ND	0.250	0.500	ug/L	1							
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1							
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L ug/L	1							
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1							
Frichlorofluoromethane	ND	1.00	2.00	ug/L ug/L	1							
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L ug/L	1							
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L ug/L	1							
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L ug/L	1							
Vinyl chloride	ND	0.200	0.400	ug/L ug/L	1							
n,p-Xylene	ND	0.500	1.00	ug/L ug/L	1							
o-Xylene	ND ND	0.250	0.500	ug/L ug/L	1							
Surr: 1,4-Difluorobenzene (Surr)	ND		very: 114 %	Limits: 80			tion: Ix					

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 26 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source % REC Analyte Result Units Dilution RPD Limit Limit Amount Result Limits Limit Notes Batch 1031194 - EPA 5030B Water Blank (1031194-BLK1) Prepared: 03/31/21 07:30 Analyzed: 03/31/21 10:03 Surr: Toluene-d8 (Surr) Recovery: 93 % Limits: 80-120 % Dilution: 1x 4-Bromofluorobenzene (Surr) 105 % 80-120 % LCS (1031194-BS1) Prepared: 03/31/21 07:30 Analyzed: 03/31/21 09:07 EPA 8260D Acetone 36.8 10.0 20.0 ug/L 1 40.0 92 80-120% Acrylonitrile 21.4 1.00 2.00 ug/L 1 20.0 107 80-120% Benzene 20.4 0.100 0.200 1 20.0 102 80-120% ug/L 0.250 92 Bromobenzene 18.4 0.500 20.0 80-120% ug/L 1 Bromochloromethane 20.5 0.500 1.00 1 20.0 102 80-120% ug/L 0.500 1.00 20.0 80-120% Bromodichloromethane 22.6 ug/L 1 113 Bromoform 21.2 0.500 1.00 ug/L 1 20.0 106 80-120% Bromomethane 15.0 5.00 5.00 1 20.0 75 80-120% Q-55 ug/L 2-Butanone (MEK) 40.3 5.00 10.0 ug/L 1 40.0 101 80-120% n-Butylbenzene 19.3 0.500 1.00 ug/L 20.0 97 80-120% 1 -----sec-Butylbenzene 17.8 0.500 1.00 1 20.0 89 80-120% ug/L tert-Butylbenzene 15.7 1.00 1.00 20.0 80-120% Q-55 ug/L 1 78 Carbon disulfide 17.9 5.00 10.0 ug/L 1 20.0 90 80-120% Carbon tetrachloride 22.6 0.500 1.00 ug/L 1 20.0 113 80-120% Chlorobenzene 19.5 0.250 0.500 ug/L 1 20.0 98 80-120% Chloroethane 27.1 5.00 5.00 ug/L 20.0 135 80-120% Q-56 1 80-120% Chloroform 21.6 0.500 1.00 ug/L 1 20.0 108 ug/L Chloromethane 25.5 2.50 5.00 1 20.0 128 80-120% Q-56 2-Chlorotoluene 17.4 0.500 1.00 ug/L 1 20.0 87 80-120% 4-Chlorotoluene 16.7 0.500 1.00 ug/L 1 20.0 83 80-120% Dibromochloromethane 20.2 0.500 1.00 ug/L 1 20.0 101 80-120% 1,2-Dibromo-3-chloropropane 18.2 2.50 5.00 ug/L 1 20.0 91 80-120% 1,2-Dibromoethane (EDB) 20.0 102 80-120% 20.4 0.250 0.500 ug/L 1 Dibromomethane 22.2 0.500 1.00 1 20.0 111 80-120% ug/L 1,2-Dichlorobenzene 19.8 0.250 0.500 ug/L 1 20.0 99 80-120% 1,3-Dichlorobenzene 19.2 0.250 0.500 ug/L 1 20.0 96 80-120% 1,4-Dichlorobenzene 18.8 0.250 0.500 20.0 94 80-120% ug/L 1 Dichlorodifluoromethane 20.3 0.500 1.00 ug/L 1 20.0 102 80-120% 1,1-Dichloroethane 20.1 0.200 0.400 20.0 101 80-120% ug/L 1

Apex Laboratories

Philip Memberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 27 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS Volatile Organic Compounds by EPA 8260D

Detection Reporting Spike Source % REC **RPD** Dilution Amount % REC Limits RPD Analyte Result Ĺimit Units Result Limit Notes Limit

Batch 1031194 - EPA 5030B		Water											
LCS (1031194-BS1)			Prepared:	03/31/21 07	7:30 Ana	lyzed: 03/31/	21 09:07						
1,2-Dichloroethane (EDC)	21.3	0.200	0.400	ug/L	1	20.0		107	80-120%				
1,1-Dichloroethene	19.3	0.200	0.400	ug/L	1	20.0		97	80-120%				
cis-1,2-Dichloroethene	19.6	0.200	0.400	ug/L	1	20.0		98	80-120%				
trans-1,2-Dichloroethene	19.2	0.200	0.400	ug/L	1	20.0		96	80-120%				
1,2-Dichloropropane	19.2	0.250	0.500	ug/L	1	20.0		96	80-120%				
1,3-Dichloropropane	18.6	0.500	1.00	ug/L	1	20.0		93	80-120%				
2,2-Dichloropropane	19.3	0.500	1.00	ug/L	1	20.0		97	80-120%				
1,1-Dichloropropene	20.0	0.500	1.00	ug/L	1	20.0		100	80-120%				
cis-1,3-Dichloropropene	18.6	0.500	1.00	ug/L	1	20.0		93	80-120%				
trans-1,3-Dichloropropene	20.3	0.500	1.00	ug/L	1	20.0		101	80-120%				
Ethylbenzene	18.9	0.250	0.500	ug/L	1	20.0		94	80-120%				
Hexachlorobutadiene	25.1	2.50	5.00	ug/L	1	20.0		125	80-120%			Q-56	
2-Hexanone	35.9	5.00	10.0	ug/L	1	40.0		90	80-120%				
Isopropylbenzene	19.3	0.500	1.00	ug/L	1	20.0		97	80-120%				
4-Isopropyltoluene	18.8	0.500	1.00	ug/L	1	20.0		94	80-120%				
Methylene chloride	21.3	5.00	10.0	ug/L	1	20.0		106	80-120%				
4-Methyl-2-pentanone (MiBK)	35.5	5.00	10.0	ug/L	1	40.0		89	80-120%				
Methyl tert-butyl ether (MTBE)	17.2	0.500	1.00	ug/L	1	20.0		86	80-120%				
Naphthalene	16.9	1.00	2.00	ug/L	1	20.0		85	80-120%				
n-Propylbenzene	17.0	0.250	0.500	ug/L	1	20.0		85	80-120%				
Styrene	21.2	0.500	1.00	ug/L	1	20.0		106	80-120%				
1,1,1,2-Tetrachloroethane	21.4	0.200	0.400	ug/L	1	20.0		107	80-120%				
1,1,2,2-Tetrachloroethane	18.1	0.250	0.500	ug/L	1	20.0		91	80-120%				
Tetrachloroethene (PCE)	21.3	0.200	0.400	ug/L	1	20.0		106	80-120%				
Toluene	17.6	0.250	0.500	ug/L	1	20.0		88	80-120%				
1,2,3-Trichlorobenzene	22.9	1.00	2.00	ug/L	1	20.0		114	80-120%				
1,2,4-Trichlorobenzene	20.5	1.00	2.00	ug/L	1	20.0		103	80-120%				
1,1,1-Trichloroethane	20.3	0.200	0.400	ug/L	1	20.0		102	80-120%				
1,1,2-Trichloroethane	20.4	0.250	0.500	ug/L	1	20.0		102	80-120%				
Trichloroethene (TCE)	21.5	0.200	0.400	ug/L	1	20.0		107	80-120%				
Trichlorofluoromethane	24.2	1.00	2.00	ug/L	1	20.0		121	80-120%			Q-56	
1,2,3-Trichloropropane	17.8	0.500	1.00	ug/L	1	20.0		89	80-120%				
1,2,4-Trimethylbenzene	17.8	0.500	1.00	ug/L	1	20.0		89	80-120%				
1,3,5-Trimethylbenzene	17.5	0.500	1.00	ug/L	1	20.0		88	80-120%				

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 28 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce Circle Project Number: BCSAmerica-1-02 Report ID: Wilsonville, OR 97070 Project Manager: Kyle Haggart A1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

		,	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1031194 - EPA 5030B							Wat	er				
LCS (1031194-BS1)			Prepared	1: 03/31/21	07:30 Anal	lyzed: 03/31	/21 09:07					
Vinyl chloride	19.6	0.200	0.400	ug/L	1	20.0		98	80-120%			
n,p-Xylene	38.8	0.500	1.00	ug/L	1	40.0		97	80-120%			
o-Xylene	18.4	0.250	0.500	ug/L	1	20.0		92	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 108 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			92 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			94 %	80	0-120 %		"					
Ouplicate (1031194-DUP1)			Prepared	l: 03/31/21	10:00 Anal	yzed: 03/31	/21 14:33					
OC Source Sample: Non-SDG (A1	C1160-05)											
Acetone	ND	10.0	20.0	ug/L	1		ND				30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1		ND				30%	
enzene	ND	0.100	0.200	ug/L	1		ND				30%	
Bromobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
romochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
romodichloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromoform	ND	0.500	1.00	ug/L	1		ND				30%	
Bromomethane	ND	5.00	5.00	ug/L	1		ND				30%	
-Butanone (MEK)	ND	5.00	10.0	ug/L	1		ND				30%	
-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
ec-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
ert-Butylbenzene	ND	1.00	1.00	ug/L	1		ND				30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1		ND				30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1		ND				30%	
hlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Chloroethane	ND	5.00	5.00	ug/L	1		ND				30%	
Chloroform	ND	0.500	1.00	ug/L	1		ND				30%	
Chloromethane	ND	2.50	5.00	ug/L	1		ND				30%	
-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1		ND				30%	
,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1		ND				30%	
bibromomethane	ND	0.500	1.00	ug/L	1		ND				30%	
,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	

Apex Laboratories

Philip Nevenberg

 ${\it The results in this report apply to the samples analyzed in accordance with the chain of}$ custody document. This analytical report must be reproduced in its entirety.

Page 29 of 57 Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source % REC Analyte Result Units Dilution RPD Limit Limit Amount Result Limits Limit Notes Batch 1031194 - EPA 5030B Water **Duplicate (1031194-DUP1)** Prepared: 03/31/21 10:00 Analyzed: 03/31/21 14:33 QC Source Sample: Non-SDG (A1C1160-05) 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 ND 30% ND 0.250 0.500 1,4-Dichlorobenzene ug/L 1 ND 30% Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 ND 30% 1,1-Dichloroethane ND 0.200 0.400ug/L 1 ND 30% 1,2-Dichloroethane (EDC) ND 0.200 0.400 1 ND 30% ug/L ---ND 0.200 1,1-Dichloroethene 0.400 ug/L 1 ND 30% cis-1,2-Dichloroethene 33.6 0.200 0.400ug/L 1 32.1 4 30% trans-1,2-Dichloroethene 0.970 30% 0.760 0.200 0.400 ug/L 1 24 1,2-Dichloropropane ND 0.250 0.500 ug/L 1 ND 30% 1,3-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% 2,2-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 ND 30% 1,1-Dichloropropene ug/L 1 cis-1,3-Dichloropropene ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 ND 30% trans-1,3-Dichloropropene ug/L 1 0.250 ug/L Ethylbenzene ND 0.500 1 ND 30% Hexachlorobutadiene ND 2.50 5.00 ug/L 1 ND 30% 2-Hexanone ND 5.00 10.0 ug/L 1 ND 30% ND 0.500 ND 30% Isopropylbenzene 1.00 1 ug/L ND 4-Isopropyltoluene 0.500 1.00 ug/L 1 ND 30% ND 10.0 Methylene chloride 5.00 ND 30% ug/L 1 4-Methyl-2-pentanone (MiBK) ND ND 5.00 10.0 ug/L 1 30% Methyl tert-butyl ether (MTBE) ND 0.500 1.00 ug/L 1 ND ---30% Naphthalene ND 1.00 2.00 ug/L 1 ND 30% ND ND 30% n-Propylbenzene 0.250 0.500 ug/L 1 ND 0.500 1.00 ND 30% Styrene ug/L 1 ND 1,1,1,2-Tetrachloroethane 0.200 0.400 ND 30% ug/L 1 1,1,2,2-Tetrachloroethane ND 0.250 0.500 ND 30% ug/L 1 Tetrachloroethene (PCE) ug/L 182 0.200 0.400 1 ---172 ---6 30% 1.24 0.250 0.500 ug/L 1 1.39 11 30% 1,2,3-Trichlorobenzene ND 1.00 2.00 ND 30% ug/L 1 ---1,2,4-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 30% ND 0.200 0.400 ND 1,1,1-Trichloroethane 1 30% ug/L

Apex Laboratories

Philip Menterg

1,1,2-Trichloroethane

ND

0.250

0.500

ug/L

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

30%

ND

Philip Nerenberg, Lab Director

Page 30 of 57

1



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

		,	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1031194 - EPA 5030B							Wat	er				
Duplicate (1031194-DUP1)			Prepared	1: 03/31/21	10:00 Ana	lyzed: 03/31	/21 14:33					
QC Source Sample: Non-SDG (A1	C1160-05)											
Trichloroethene (TCE)	40.5	0.200	0.400	ug/L	1		38.3			6	30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1		ND				30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
Vinyl chloride	0.610	0.200	0.400	ug/L	1		0.620			2	30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1		ND				30%	
o-Xylene	ND	0.250	0.500	ug/L	1		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 118 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			92 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			104 %	80	0-120 %		"					
QC Source Sample: Non-SDG (A1	C1160-06)											
EPA 8260D				~		40.0						
Acetone	41.4	10.0	20.0	ug/L	1	40.0	ND	104	39-160%			
Acrylonitrile	22.5	1.00	2.00	ug/L	1	20.0	ND	113	63-135%			
Benzene	22.3	0.100	0.200	ug/L	1	20.0	ND	112	79-120%			
Bromobenzene	19.8	0.250	0.500	ug/L	1	20.0	ND	99	80-120%			
Bromochloromethane	21.1	0.500	1.00	ug/L	1	20.0	ND	106	78-123%			
Bromodichloromethane	23.4	0.500	1.00	ug/L	1	20.0	ND	117	79-125%			
Bromoform	21.8	0.500	1.00	ug/L	1	20.0	ND	109	66-130%			~
Bromomethane	17.2	5.00	5.00	ug/L	1	20.0	ND	86	53-141%			Q-:
2-Butanone (MEK)	44.1	5.00	10.0	ug/L	1	40.0	ND	110	56-143%			
n-Butylbenzene	21.2	0.500	1.00	ug/L	1	20.0	ND	106	75-128%			
sec-Butylbenzene	19.6	0.500	1.00	ug/L	1	20.0	ND	98	77-126%			
ert-Butylbenzene	16.8	1.00	1.00	ug/L	1	20.0	ND	84	78-124%			Q-:
Carbon disulfide	20.2	5.00	10.0	ug/L	1	20.0	ND	101	64-133%			
Carbon tetrachloride	26.0	0.500	1.00	ug/L	1	20.0	ND	130	72-136%			
Chlorobenzene	21.1	0.250	0.500	ug/L	1	20.0	ND	106	80-120%			a
Chloroethane	29.0	5.00	5.00	ug/L	1	20.0	ND		60-138%			Q-
Chloroform	23.2	0.500	1.00	ug/L	1	20.0	ND	116	79-124%			
Chloromethane	27.7	2.50	5.00	ug/L	1	20.0	ND	139	50-139%			Q-:

Apex Laboratories

Philip Newsberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1031194 - EPA 5030B Water Matrix Spike (1031194-MS1) Prepared: 03/31/21 10:00 Analyzed: 03/31/21 15:27 QC Source Sample: Non-SDG (A1C1160-06) 2-Chlorotoluene 19.2 0.500 1.00 ug/L 1 20.0 ND 96 79-122% 17.8 0.500 1.00 20.0 4-Chlorotoluene ug/L 1 ND 89 78-122% ug/L Dibromochloromethane 20.4 0.500 1.00 1 20.0 ND 102 74-126% 1,2-Dibromo-3-chloropropane 18.8 2.50 5.00 ug/L 1 20.0 ND 94 62-128% 1,2-Dibromoethane (EDB) 21.0 0.250 0.500 1 20.0 ND 105 77-121% ug/L Dibromomethane 23.3 0.500 1.00 20.0 ND 79-123% ug/L 1 116 1,2-Dichlorobenzene 21.4 0.250 0.500 ug/L 1 20.0 ND 107 80-120% 20.6 0.500 20.0 ND 103 80-120% 1.3-Dichlorobenzene 0.250 ug/L 1 1,4-Dichlorobenzene 20.2 0.250 0.500 ug/L 1 20.0 ND 101 79-120% Dichlorodifluoromethane 25.2 0.500 1.00 ug/L 1 20.0 ND 126 32-152% 1,1-Dichloroethane 21.3 0.200 0.400 ug/L 1 20.0 ND 106 77-125% 1,2-Dichloroethane (EDC) 22.2 0.200 0.400 20.0 ND 111 73-128% ug/L 1 20.0 107 1,1-Dichloroethene 21.3 0.200 0.400 ug/L 1 ND 71-131% 20.0 cis-1,2-Dichloroethene 39.3 0.200 0.400 17.3 110 78-123% ug/L 1 ug/L trans-1,2-Dichloroethene 21.7 0.200 0.400 1 20.0 ND 109 75-124% 1,2-Dichloropropane 20.4 0.250 0.500 ug/L 1 20.0 ND 102 78-122% ___ 1,3-Dichloropropane 19.3 0.500 1.00 ug/L 1 20.0 ND 97 80-120% 20.2 0.500 20.0 ND 101 60-139% 2,2-Dichloropropane 1.00 1 ug/L 22.7 20.0 ND 79-125% 1,1-Dichloropropene 0.500 1.00 ug/L 1 113 0.500 1.00 20.0 cis-1,3-Dichloropropene 17.4 ND 87 75-124% ug/L 1 trans-1,3-Dichloropropene 20.4 0.500 20.0 ND 102 73-127% 1.00 ug/L 1 0.250 Ethylbenzene 20.6 0.500 ug/L 1 20.0 ND 103 79-121% Hexachlorobutadiene 27.4 2.50 5.00 ug/L 1 20.0 ND 137 66-134% Q-54b 2-Hexanone 37.1 40.0 ND 93 57-139% 5.00 10.0 ug/L 1 21.2 0.500 1.00 20.0 ND 72-131% Isopropylbenzene ug/L 1 106 20.0 77-127% 20.6 0.500 1.00 ND 103 4-Isopropyltoluene ug/L 1 Methylene chloride 21.8 5.00 10.0 20.0 ND 109 74-124% ug/L 1 40.0 ND 67-130% 4-Methyl-2-pentanone (MiBK) 35.9 5.00 10.0 ug/L 1 90 Methyl tert-butyl ether (MTBE) 17.8 0.500 1.00 ug/L 1 20.0 ND 89 71-124% Naphthalene 17.6 1.00 2.00 1 20.0 ND 88 61-128% ug/L n-Propylbenzene 18.5 0.250 0.500 1 20.0 ND 92 76-126% ug/L 22.3 0.500 1.00 20.0 ND 112 78-123% Styrene 1 ug/L ---1,1,1,2-Tetrachloroethane 22.5 0.200 0.400 ug/L 1 20.0 ND 113 78-124%

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 32 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1031194 - EPA 5030B Water Matrix Spike (1031194-MS1) Prepared: 03/31/21 10:00 Analyzed: 03/31/21 15:27 QC Source Sample: Non-SDG (A1C1160-06) 20.0 1,1,2,2-Tetrachloroethane 18.7 0.250 0.500 ug/L 1 ND 94 71-121% 74-129% Tetrachloroethene (PCE) 84.3 0.200 0.400 20.0 ug/L 1 62.6 108 19.1 20.0 80-121% Toluene 0.250 0.500 ug/L 1 ND 95 1,2,3-Trichlorobenzene 24.7 1.00 2.00 ug/L 1 20.0 ND 123 69-129% 1,2,4-Trichlorobenzene 22.0 1.00 2.00 ug/L 1 20.0 ND 110 69-130% 1,1,1-Trichloroethane 22.5 0.200 0.400 20.0 ND 74-131% ug/L 1 113 1,1,2-Trichloroethane 21.4 0.250 0.500 ug/L 1 20.0 ND 107 80-120% Trichloroethene (TCE) 38.4 0.200 0.40020.0 14.5 119 79-123% ug/L 1 20.0 Q-54 Trichlorofluoromethane 28.1 1.00 2.00 ug/L 1 ND 140 65-141% 1,2,3-Trichloropropane 18.7 0.500 1.00 ug/L 1 20.0 ND 93 73-122% 1,2,4-Trimethylbenzene 19.0 0.500 1.00 ug/L 1 20.0 ND 95 76-124% 1,3,5-Trimethylbenzene 19.0 0.500 1.00 20.0 ND 95 75-124% ug/L 1 22.9 0.200 20.0 0.430 58-137% Vinyl chloride 0.400 ug/L 1 112 1.00 40.0 ND m,p-Xylene 42.0 0.500 105 80-121% ug/L 1 0.250 0.500 78-122% o-Xylene 19.7 ug/L ND Surr: 1,4-Difluorobenzene (Surr) Recovery: 110 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 91% 80-120 % 4-Bromofluorobenzene (Surr) 95 % 80-120 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 33 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

		Vo	latile Orga	nic Com	pounds b	y EPA 826	OD SIM					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1040059 - EPA 5030B							Wat	er				
Blank (1040059-BLK1)			Prepared	: 04/02/21	09:00 Anal	yzed: 04/02/	21 12:48					
EPA 8260D SIM												
Benzene	ND	0.0500	0.100	ug/L	1							
Toluene	ND	0.0500	0.100	ug/L	1							
Ethylbenzene	ND	0.0500	0.100	ug/L	1							
n,p-Xylene	ND	0.100	0.200	ug/L	1							
o-Xylene	ND	0.0500	0.100	ug/L	1							
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1							
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1							
Chloroform	ND	0.0500	0.100	ug/L	1							
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1							
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1							
,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1							
,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1							
,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
rans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1							
eis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1							
rans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1							
,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1							
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1							
,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1							
Frichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1							
,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1							
Vinyl chloride	ND	0.0100	0.0200	ug/L	1							
Surr: 1,4-Difluorobenzene (Surr)		Recov			0-120 %	Dilı	tion: 1x					_
Toluene-d8 (Surr)		necov	96%)-120 %)-120 %	Diii	" "					
4-Bromofluorobenzene (Surr)			94 %		120 %		"					
, Bromojmorovenzene (vull)			77 /0		120 / 0							
LCS (1040059-BS1)			Prepared	: 04/02/21	09:00 Anal	yzed: 04/02/	21 12:14					
EPA 8260D SIM												
Benzene	0.215	0.0500	0.100	ug/L	1	0.200			80-120%			
Toluene	0.190	0.0500	0.100	ug/L	1	0.200		95	80-120%			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nevemberg

Philip Nerenberg, Lab Director

Page 34 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

		Vol	atile Orga	nic Com	pounds b	y EPA 826	SOD SIM					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1040059 - EPA 5030B							Wat	er				
LCS (1040059-BS1)			Prepared	1: 04/02/21	09:00 Ana	lyzed: 04/02	/21 12:14					
Ethylbenzene	0.172	0.0500	0.100	ug/L	1	0.200		86	80-120%			
m,p-Xylene	0.342	0.100	0.200	ug/L	1	0.400		86	80-120%			
o-Xylene	0.173	0.0500	0.100	ug/L	1	0.200		86	80-120%			
1,2,4-Trimethylbenzene	0.174	0.0500	0.100	ug/L	1	0.200		87	80-120%			
1,3,5-Trimethylbenzene	0.177	0.0500	0.100	ug/L	1	0.200		89	80-120%			
Chloroform	0.208	0.0500	0.100	ug/L	1	0.200		104	80-120%			
1,2-Dibromo-3-chloropropane	0.191	0.100	0.200	ug/L	1	0.200		96	80-120%			
1,2-Dibromoethane (EDB)	0.192	0.0100	0.0200	ug/L	1	0.200		96	80-120%			
1,1-Dichloroethane	0.220	0.0100	0.0200	ug/L	1	0.200		110	80-120%			
1,2-Dichloroethane (EDC)	0.225	0.0100	0.0200	ug/L	1	0.200		112	80-120%			
1,1-Dichloroethene	0.188	0.0100	0.0200	ug/L	1	0.200		94	80-120%			
cis-1,2-Dichloroethene	0.203	0.0100	0.0200	ug/L	1	0.200		101	80-120%			
trans-1,2-Dichloroethene	0.217	0.0100	0.0200	ug/L	1	0.200		108	80-120%			
1,2-Dichloropropane	0.226	0.0100	0.0200	ug/L	1	0.200		113	80-120%			
cis-1,3-Dichloropropene	0.189	0.0100	0.0200	ug/L	1	0.200		95	80-120%			
trans-1,3-Dichloropropene	0.192	0.0100	0.0200	ug/L	1	0.200		96	80-120%			
Methyl tert-butyl ether (MTBE)	0.189	0.0100	0.0200	ug/L	1	0.200		95	80-120%			
1,1,2,2-Tetrachloroethane	0.206	0.0100	0.0200	ug/L	1	0.200		103	80-120%			
Tetrachloroethene (PCE)	0.198	0.0100	0.0200	ug/L	1	0.200		99	80-120%			
1,1,2-Trichloroethane	0.189	0.0100	0.0200	ug/L	1	0.200		95	80-120%			
Trichloroethene (TCE)	0.210	0.0100	0.0200	ug/L	1	0.200		105	80-120%			
1,2,3-Trichloropropane	0.204	0.0500	0.100	ug/L	1	0.200		102	80-120%			
Vinyl chloride	0.234	0.0100	0.0200	ug/L	1	0.200		117	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recove	ery: 101 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			93 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			94 %	80	0-120 %		"					
Duplicate (1040059-DUP1)			Prepared	1: 04/02/21	12:37 Ana	lyzed: 04/02	/21 16:23					
OC Source Sample: Non-SDG (A1	C0919-03)											
Benzene	334	1.25	2.50	ug/L	25		334			0.2	30%	
Toluene	9.17	1.25	2.50	ug/L	25		9.19			0.3	30%	
Ethylbenzene	47.5	1.25	2.50	ug/L	25		46.3			3	30%	
m,p-Xylene	30.2	2.50	5.00	ug/L	25		29.4			2	30%	
o-Xylene	18.9	1.25	2.50	ug/L	25		18.6			1	30%	

Apex Laboratories

Philip Newberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 35 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

		Vo	latile Orga	nic Com	pounds b	y EPA 826	OD SIM					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1040059 - EPA 5030B							Wat	er				
Duplicate (1040059-DUP1)			Prepared	1: 04/02/21	12:37 Anal	yzed: 04/02/	/21 16:23					
QC Source Sample: Non-SDG (A1	C0919-03)											
1,2,4-Trimethylbenzene	9.43	1.25	2.50	ug/L	25		9.24			2	30%	
1,3,5-Trimethylbenzene	2.88	1.25	2.50	ug/L	25		2.82			2	30%	
Chloroform	ND	1.25	2.50	ug/L	25		ND				30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	25		ND				30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	25		ND				30%	
1,1-Dichloroethane	ND	0.250	0.500	ug/L	25		ND				30%	
1,2-Dichloroethane (EDC)	ND	0.250	0.500	ug/L	25		ND				30%	
1,1-Dichloroethene	ND	0.250	0.500	ug/L	25		ND				30%	
cis-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25		ND				30%	
trans-1,2-Dichloroethene	ND	0.250	0.500	ug/L	25		ND				30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	25		ND				30%	
cis-1,3-Dichloropropene	ND	0.250	0.500	ug/L	25		ND				30%	
trans-1,3-Dichloropropene	ND	0.250	0.500	ug/L	25		ND				30%	
Methyl tert-butyl ether (MTBE)	ND	0.250	0.500	ug/L	25		ND				30%	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	25		ND				30%	
Tetrachloroethene (PCE)	ND	0.250	0.500	ug/L	25		ND				30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	25		ND				30%	
Trichloroethene (TCE)	ND	0.250	0.500	ug/L	25		ND				30%	
1,2,3-Trichloropropane	ND	1.25	2.50	ug/L	25		ND				30%	
Vinyl chloride	ND	0.250	0.500	ug/L	25		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 103 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			94 %		0-120 %		"					
4-Bromofluorobenzene (Surr)			92 %	80	0-120 %		"					
Matrix Spike (1040059-MS1)			Prepared	1: 04/02/21	12:37 Anal	lyzed: 04/02/	/21 16:50					
QC Source Sample: Non-SDG (A1	C0919-03)		-									
EPA 8260D SIM												
Benzene	338	1.25	2.50	ug/L	25	5.00	334	95	79-120%			
Toluene	13.4	1.25	2.50	ug/L	25	5.00	9.19		80-121%			
Ethylbenzene	52.1	1.25	2.50	ug/L	25	5.00	46.3		79-121%			
m,p-Xylene	38.8	2.50	5.00	ug/L	25	10.0	29.4		80-121%			
o-Xylene	23.1	1.25	2.50	ug/L	25	5.00	18.6		78-122%			
1,2,4-Trimethylbenzene	13.8	1.25	2.50	ug/L	25	5.00	9.24		76-124%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 36 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

		Vo	latile Orga	nic Com	pounds b	y EPA 820	60D SIM					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits		RPD Limit	Notes
Batch 1040059 - EPA 5030B							Wat	er				
Matrix Spike (1040059-MS1)			Prepared	d: 04/02/21	12:37 Ana	lyzed: 04/02	/21 16:50					
QC Source Sample: Non-SDG (A1	C0919-03)											
1,3,5-Trimethylbenzene	7.31	1.25	2.50	ug/L	25	5.00	2.82	90	75-124%			
Chloroform	5.11	1.25	2.50	ug/L	25	5.00	ND	102	79-124%			
1,2-Dibromo-3-chloropropane	4.40	2.50	5.00	ug/L	25	5.00	ND	88	62-128%			
1,2-Dibromoethane (EDB)	4.56	0.250	0.500	ug/L	25	5.00	ND	91	77-121%			
1,1-Dichloroethane	5.43	0.250	0.500	ug/L	25	5.00	ND	109	77-125%			
1,2-Dichloroethane (EDC)	5.57	0.250	0.500	ug/L	25	5.00	ND	111	73-128%			
1,1-Dichloroethene	4.96	0.250	0.500	ug/L	25	5.00	ND	99	71-131%			
cis-1,2-Dichloroethene	5.02	0.250	0.500	ug/L	25	5.00	ND	100	78-123%			
trans-1,2-Dichloroethene	5.31	0.250	0.500	ug/L	25	5.00	ND	106	75-124%			
1,2-Dichloropropane	5.47	0.250	0.500	ug/L	25	5.00	ND	109	78-122%			
cis-1,3-Dichloropropene	4.39	0.250	0.500	ug/L	25	5.00	ND	88	75-124%			
rans-1,3-Dichloropropene	4.58	0.250	0.500	ug/L	25	5.00	ND	92	73-127%			
Methyl tert-butyl ether (MTBE)	4.46	0.250	0.500	ug/L	25	5.00	ND	89	71-124%			
1,1,2,2-Tetrachloroethane	4.76	0.250	0.500	ug/L	25	5.00	ND	95	71-121%			
Tetrachloroethene (PCE)	4.90	0.250	0.500	ug/L	25	5.00	ND	98	74-129%			
1,1,2-Trichloroethane	4.41	0.250	0.500	ug/L	25	5.00	ND	88	80-120%			
Trichloroethene (TCE)	5.20	0.250	0.500	ug/L	25	5.00	ND	104	79-123%			
1,2,3-Trichloropropane	4.93	1.25	2.50	ug/L	25	5.00	ND	99	73-122%			
Vinyl chloride	6.25	0.250	0.500	ug/L	25	5.00	ND	125	58-137%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 102 %	Limits: 80	0-120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			91 %		0-120 %		"					
4-Bromofluorobenzene (Surr)			92 %		0-120 %		"					
Matrix Spike Dup (1040059-M	SD1)		Prepared	d: 04/02/21	12:37 Ana	lyzed: 04/02	/21 17:17					
QC Source Sample: Non-SDG (A1			1			•	·					
Benzene	338	1.25	2.50	ug/L	25	5.00	334	85	79-120%	0.1	30%	
Toluene	13.2	1.25	2.50	ug/L	25	5.00	9.19	80	80-121%	2	30%	
Ethylbenzene	51.5	1.25	2.50	ug/L	25	5.00	46.3	104	79-121%	1	30%	
n,p-Xylene	38.6	2.50	5.00	ug/L	25	10.0	29.4	91	80-121%	0.6	30%	
o-Xylene	23.1	1.25	2.50	ug/L	25	5.00	18.6	90	78-122%	0.006		
1,2,4-Trimethylbenzene	13.6	1.25	2.50	ug/L	25	5.00	9.24	88	76-124%	0.9	30%	
1,3,5-Trimethylbenzene	7.21	1.25	2.50	ug/L	25	5.00	2.82	88	75-124%	1	30%	
C11 C	7.21	1.25	2.50	ug/L	25	5.00	2.02	100	75 12 170		2007	

Apex Laboratories

Philip Nevenberg

Chloroform

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

102

ND

79-124%

30%

0.4

Philip Nerenberg, Lab Director

25

5.00

1.25

2.50

ug/L

5.09



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM Detection Reporting % REC RPD Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 1040059 - EPA 5030B Water Matrix Spike Dup (1040059-MSD1) Prepared: 04/02/21 12:37 Analyzed: 04/02/21 17:17 QC Source Sample: Non-SDG (A1C0919-03) 1,2-Dibromo-3-chloropropane 4.55 2.50 5.00 ug/L 25 5.00 ND 91 62-128% 3 30% 0.250 5.00 93 77-121% 1,2-Dibromoethane (EDB) 4.65 0.500 ug/L 25 ND 2 30% 77-125% 1,1-Dichloroethane 5.40 0.250 0.500 ug/L 25 5.00 ND 108 0.4 30% 1,2-Dichloroethane (EDC) 5.51 0.250 0.500 ug/L 25 5.00 ND 110 73-128% 1 30% 1,1-Dichloroethene 4.89 0.250 0.500 ug/L 25 5.00 ND 98 71-131% 1 30% cis-1,2-Dichloroethene 5.01 0.250 0.500 5.00 ND 100 78-123% ug/L 25 0.2 30% trans-1,2-Dichloroethene 5.28 0.250 0.500 ug/L 25 5.00 ND 106 75-124% 0.5 30% 1,2-Dichloropropane 25 5.00 ND 78-122% 30% 5.50 0.250 0.500 ug/L 110 0.5 cis-1,3-Dichloropropene 4.49 0.250 0.500 ug/L 25 5.00 ND 90 75-124% 2 30% trans-1,3-Dichloropropene 4.47 0.250 0.500 ug/L 25 5.00 ND 89 73-127% 2 30% Methyl tert-butyl ether (MTBE) 4.56 0.250 0.500 ug/L 25 5.00 ND 91 71-124% 2 30% 0.250 1,1,2,2-Tetrachloroethane 5.00 0.500 25 5.00 ND 100 71-121% 5 ug/L 30% Tetrachloroethene (PCE) 0.250 25 5.00 95 74-129% 4.73 0.500 ug/L ND 30% 5.00 1,1,2-Trichloroethane 4.48 0.250 0.500 25 ND 90 80-120% 1 30% ug/L 0.250 Trichloroethene (TCE) 5.15 0.500 ug/L 25 5.00 ND 103 79-123% 1 30% 1,2,3-Trichloropropane 4.96 1.25 2.50 ug/L 25 5.00 ND 99 73-122% 0.7 30% Vinyl chloride 6.02 0.250 0.500 ug/L 2.5 5.00 ND 120 58-137% 4 30% Surr: 1,4-Difluorobenzene (Surr) 103 % 80-120 % Dilution: Recovery: Limits: Toluene-d8 (Surr) 92 % 80-120 % 4-Bromofluorobenzene (Surr) 92 % 80-120 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 38 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlor	inated B	iphenyls	by EPA 80	082A					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1040065 - EPA 3510C (Neutral pH	1)					Wat	er				
Blank (1040065-BLK1)			Prepared	: 04/02/21	10:31 Ana	lyzed: 04/05	5/21 08:26					C-0′
EPA 8082A												
Aroclor 1016	ND	0.0182	0.0364	ug/L	1							
Aroclor 1221	ND	0.0182	0.0364	ug/L	1							
Aroclor 1232	ND	0.0182	0.0364	ug/L	1							
Aroclor 1242	ND	0.0182	0.0364	ug/L	1							
Aroclor 1248	ND	0.0182	0.0364	ug/L	1							
Aroclor 1254	ND	0.0182	0.0364	ug/L	1							
Aroclor 1260	ND	0.0182	0.0364	ug/L	1							
Surr: Decachlorobiphenyl (Surr)		Reco	very: 99 %	Limits: 40	0-135 %	Dilt	ution: 1x					
LCS (1040065-BS1)			Prepared	: 04/02/21	10:31 Ana	lyzed: 04/05	5/21 08:43					C-0'
EPA 8082A												
Aroclor 1016	1.63	0.0200	0.0400	ug/L	1	2.50		65	46-129%			
Aroclor 1260	1.91	0.0200	0.0400	ug/L	1	2.50		76	45-134%			
Surr: Decachlorobiphenyl (Surr)		Reco	very: 98 %	Limits: 40	0-135 %	Dilt	ution: 1x					
LCS Dup (1040065-BSD1)			Prepared	: 04/02/21	10:31 Ana	lyzed: 04/05	/21 09:01					C-07, Q-1
EPA 8082A												
Aroclor 1016	1.70	0.0200	0.0400	ug/L	1	2.50		68	46-129%	5	30%	
Aroclor 1260	2.02	0.0200	0.0400	ug/L	1	2.50		81	45-134%	5	30%	
Surr: Decachlorobiphenyl (Surr)		Reco	very: 96 %	Limits: 40	0-135 %	Dilı	ution: 1x					

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 39 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1031212 - EPA 3510C (Acid Extraction) Water Blank (1031212-BLK2) Prepared: 03/31/21 10:35 Analyzed: 03/31/21 16:48 EPA 8270E Acenaphthene ND 0.00909 0.0182 ug/L ND 0.00909 0.0182 ug/L 1 Acenaphthylene Anthracene ND 0.00909 0.0182 ug/L 1 Benz(a)anthracene ND 0.00909 0.01821 ug/L ND 0.0136 0.0273 ug/L 1 Benzo(a)pyrene 0.0136 0.0273 Benzo(b)fluoranthene ND ug/L 1 ------------Benzo(k)fluoranthene ND 0.0136 0.0273 ug/L 1 0.00909 0.0182 ND Benzo(g,h,i)perylene ug/L 1 Chrysene ND 0.00909 0.0182 ug/L 1 Dibenz(a,h)anthracene ND 0.00909 0.0182 ug/L 1 Fluoranthene ND 0.009090.0182 ug/L 1 ND 0.00909 0.0182 Fluorene 1 ug/L Indeno(1,2,3-cd)pyrene ND 0.00909 0.0182 ug/L 1 ND 0.0182 0.0364 1-Methylnaphthalene ug/L 1 2-Methylnaphthalene ND 0.01820.0364 ug/L 1 Naphthalene ND 0.0182 0.0364 ug/L 1 ------------Phenanthrene ND 0.00909 0.0182 ug/L 1 ND 0.00909 0.0182 Pyrene ug/L 1 ------Carbazole ND 0.0136 0.0273 ug/L 1 Dibenzofuran ND 0.00909 0.0182 ug/L 1 2-Chlorophenol ND 0.04550.0909 ug/L 1 4-Chloro-3-methylphenol ND 0.0909 0.182 ug/L 1 0.0455 0.0909 2,4-Dichlorophenol ND ug/L 1 2,4-Dimethylphenol ND 0.0455 0.0909 ug/L 1 0.227 0.455 2,4-Dinitrophenol ND ug/L 1 4,6-Dinitro-2-methylphenol ND 0.227 0.455 ug/L 1 2-Methylphenol ND 0.0227 0.0455 ug/L 1 0.0227 3+4-Methylphenol(s) ND 0.0455 ug/L 1 ---2-Nitrophenol ND 0.0909 0.182ug/L 1 0.0909 4-Nitrophenol ND 0.182 ug/L 1 Pentachlorophenol (PCP) ND 0.0909 0.182 ug/L 1

Apex Laboratories

Philip Menterg

2,3,4,6-Tetrachlorophenol

ND

ND

0.182

0.0455

0.364

0.0909

ug/L

ug/L

Phenol

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 40 of 57

1

1



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

		Sei	mivolatile (Organic (Compoun	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1031212 - EPA 3510C (A	Acid Extra	ction)					Wat	er				
Blank (1031212-BLK2)			Prepared	: 03/31/21	10:35 Anal	lyzed: 03/31	/21 16:48					
2,3,5,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1							
2,4,5-Trichlorophenol	ND	0.0455	0.0909	ug/L	1							
2,4,6-Trichlorophenol	ND	0.0455	0.0909	ug/L	1							
Bis(2-ethylhexyl)phthalate	ND	0.182	0.364	ug/L	1							
Butyl benzyl phthalate	ND	0.182	0.364	ug/L	1							
Diethylphthalate	ND	0.182	0.364	ug/L	1							
Dimethylphthalate	ND	0.182	0.364	ug/L	1							
Di-n-butylphthalate	ND	0.182	0.364	ug/L	1							
Di-n-octyl phthalate	ND	0.182	0.364	ug/L	1							
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 96 %	Limits: 44	4-120 %	Dilt	ution: 1x					
2-Fluorobiphenyl (Surr)			56%	44	!-120 %		"					
Phenol-d6 (Surr)			32 %	10	-133 %		"					
p-Terphenyl-d14 (Surr)			90 %		-134 %		"					
2-Fluorophenol (Surr)			47 %		0-120 %		"					
2,4,6-Tribromophenol (Surr)			74 %		2-140 %		"					
LCS (1031212-BS2)			Prepared	: 03/31/21	10:35 Anal	lyzed: 03/31	/21 17:23					
EPA 8270E												
Acenaphthene	2.24	0.0200	0.0400	ug/L	2	4.00		56	47-122%			
Acenaphthylene	2.60	0.0200	0.0400	ug/L	2	4.00			41-130%			
Anthracene	3.28	0.0200	0.0400	ug/L	2	4.00			57-123%			
Benz(a)anthracene	3.63	0.0200	0.0400	ug/L	2	4.00			58-125%			
Benzo(a)pyrene	3.71	0.0300	0.0600	ug/L	2	4.00			54-128%			
Benzo(b)fluoranthene	3.71	0.0300	0.0600	ug/L	2	4.00			53-131%			
Benzo(k)fluoranthene	3.56	0.0300	0.0600	ug/L	2	4.00			57-129%			
Benzo(g,h,i)perylene	3.73	0.0200	0.0400	ug/L	2	4.00			50-134%			
Chrysene	3.35	0.0200	0.0400	ug/L	2	4.00			59-123%			
Dibenz(a,h)anthracene	3.42	0.0200	0.0400	ug/L ug/L	2	4.00			51-134%			
luoranthene	3.55	0.0200	0.0400	ug/L ug/L	2	4.00			57-128%			
Fluorene	2.74	0.0200	0.0400	ug/L ug/L	2	4.00			52-124%			
ndeno(1,2,3-cd)pyrene	3.37	0.0200	0.0400	ug/L ug/L	2	4.00			52-124%			
-Methylnaphthalene	1.65	0.0200	0.0800	ug/L ug/L	2	4.00			41-120%			
-Methylnaphthalene	1.60	0.0400	0.0800	ug/L ug/L	2	4.00			40-121%			
• •	1.61	0.0400	0.0800	-	2	4.00			40-121%			
Naphthalene	1.01	0.0400	0.0800	ug/L	2	4.00		40	40-121%			

Apex Laboratories

Philip Newsberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 41 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

		Sei	mivolatile	Organic (Compour	ids by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REG	% REC C Limits	RPD	RPD Limit	Notes
Batch 1031212 - EPA 3510C (Acid Extra	ction)					Wat	er				
LCS (1031212-BS2)			Prepared	: 03/31/21	10:35 Ana	lyzed: 03/31	/21 17:23					
Phenanthrene	3.09	0.0200	0.0400	ug/L	2	4.00		77	59-120%			
Pyrene	3.50	0.0200	0.0400	ug/L	2	4.00		88	57-126%			
Carbazole	3.85	0.0300	0.0600	ug/L	2	4.00		96	60-122%			
Dibenzofuran	2.46	0.0200	0.0400	ug/L	2	4.00		61	53-120%			
2-Chlorophenol	3.01	0.100	0.200	ug/L	2	4.00		75	38-120%			
4-Chloro-3-methylphenol	3.12	0.200	0.400	ug/L	2	4.00		78	52-120%			
2,4-Dichlorophenol	2.90	0.100	0.200	ug/L	2	4.00		72	47-121%			
2,4-Dimethylphenol	2.83	0.100	0.200	ug/L	2	4.00		71	31-124%			
2,4-Dinitrophenol	3.04	0.500	1.00	ug/L	2	4.00		76	23-143%			Q-3
4,6-Dinitro-2-methylphenol	2.90	0.500	1.00	ug/L	2	4.00		72	44-137%			
2-Methylphenol	2.89	0.0500	0.100	ug/L	2	4.00		72	30-120%			
3+4-Methylphenol(s)	2.64	0.0500	0.100	ug/L	2	4.00		66	29-120%			
2-Nitrophenol	2.78	0.200	0.400	ug/L	2	4.00		70	47-123%			
4-Nitrophenol	1.30	0.200	0.400	ug/L	2	4.00		33	10-120%			
Pentachlorophenol (PCP)	3.24	0.200	0.400	ug/L	2	4.00		81	35-138%			
Phenol	1.19	0.400	0.800	ug/L	2	4.00		30	10-120%			
2,3,4,6-Tetrachlorophenol	2.92	0.100	0.200	ug/L	2	4.00		73	50-128%			
2,3,5,6-Tetrachlorophenol	3.20	0.100	0.200	ug/L	2	4.00		80	50-121%			
2,4,5-Trichlorophenol	2.97	0.100	0.200	ug/L	2	4.00		74	53-123%			
2,4,6-Trichlorophenol	3.09	0.100	0.200	ug/L	2	4.00		77	50-125%			
Bis(2-ethylhexyl)phthalate	3.74	0.400	0.800	ug/L	2	4.00		93	55-135%			
Butyl benzyl phthalate	4.21	0.400	0.800	ug/L	2	4.00		105	53-134%			
Diethylphthalate	3.45	0.400	0.800	ug/L	2	4.00		86	56-125%			
Dimethylphthalate	3.28	0.400	0.800	ug/L	2	4.00		82	45-127%			
Di-n-butylphthalate	4.06	0.400	0.800	ug/L	2	4.00		101	59-127%			
Di-n-octyl phthalate	4.37	0.400	0.800	ug/L	2	4.00		109	51-140%			
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 88 %	Limits: 44	4-120 %	Dilı	ution: 2x					
2-Fluorobiphenyl (Surr)			57 %	44	<i>1-120 %</i>		"					
Phenol-d6 (Surr)			31 %	10	0-133 %		"					
p-Terphenyl-d14 (Surr)			87 %	50	0-134 %		"					
2-Fluorophenol (Surr)			44 %	19	0-120 %		"					
2,4,6-Tribromophenol (Surr)			77 %	4.3	3-140 %		"					

Apex Laboratories

LCS Dup (1031212-BSD2)

Philip Menherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Q-19

Philip Nerenberg, Lab Director

Prepared: 03/31/21 10:35 Analyzed: 03/31/21 17:59



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

RPD

GeoDesign, Inc. Project: Former Automatic Vending Co.

Reporting

Detection

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Spike

Source

% REC

Analyte	Result	Limit	Limit	Units	Dilution	Amount	Result	% REC	% REC Limits	RPD	Limit	Notes
Batch 1031212 - EPA 3510C (Acid Extra	ction)					Wat	er				
LCS Dup (1031212-BSD2)			Prepared	03/31/21	10:35 Anal	yzed: 03/31/	/21 17:59					Q-19
EPA 8270E												
Acenaphthene	2.79	0.0200	0.0400	ug/L	2	4.00		70	47-122%	22	30%	
Acenaphthylene	3.06	0.0200	0.0400	ug/L	2	4.00		77	41-130%	17	30%	
Anthracene	3.25	0.0200	0.0400	ug/L	2	4.00		81	57-123%	1	30%	
Benz(a)anthracene	3.55	0.0200	0.0400	ug/L	2	4.00		89	58-125%	2	30%	
Benzo(a)pyrene	3.60	0.0300	0.0600	ug/L	2	4.00		90	54-128%	3	30%	
Benzo(b)fluoranthene	3.63	0.0300	0.0600	ug/L	2	4.00		91	53-131%	2	30%	
Benzo(k)fluoranthene	3.43	0.0300	0.0600	ug/L	2	4.00		86	57-129%	4	30%	
Benzo(g,h,i)perylene	3.58	0.0200	0.0400	ug/L	2	4.00		90	50-134%	4	30%	
Chrysene	3.25	0.0200	0.0400	ug/L	2	4.00		81	59-123%	3	30%	
Dibenz(a,h)anthracene	3.32	0.0200	0.0400	ug/L	2	4.00		83	51-134%	3	30%	
Fluoranthene	3.48	0.0200	0.0400	ug/L	2	4.00		87	57-128%	2	30%	
Fluorene	3.00	0.0200	0.0400	ug/L	2	4.00		75	52-124%	9	30%	
ndeno(1,2,3-cd)pyrene	3.30	0.0200	0.0400	ug/L	2	4.00		83	52-134%	2	30%	
-Methylnaphthalene	2.45	0.0400	0.0800	ug/L	2	4.00		61	41-120%	39	30%	Q-2
2-Methylnaphthalene	2.46	0.0400	0.0800	ug/L	2	4.00		62	40-121%	42	30%	Q-2
Naphthalene	2.38	0.0400	0.0800	ug/L	2	4.00		60	40-121%	39	30%	Q-2
Phenanthrene	3.08	0.0200	0.0400	ug/L	2	4.00		77	59-120%	0.3	30%	
Pyrene	3.37	0.0200	0.0400	ug/L	2	4.00		84	57-126%	4	30%	
Carbazole	3.76	0.0300	0.0600	ug/L	2	4.00		94	60-122%	2	30%	
Dibenzofuran	2.77	0.0200	0.0400	ug/L	2	4.00		69	53-120%	12	30%	
2-Chlorophenol	3.07	0.100	0.200	ug/L	2	4.00		77	38-120%	2	30%	
l-Chloro-3-methylphenol	3.07	0.200	0.400	ug/L	2	4.00		77	52-120%	2	30%	
2,4-Dichlorophenol	2.90	0.100	0.200	ug/L	2	4.00		73	47-121%	0.3	30%	
2,4-Dimethylphenol	2.89	0.100	0.200	ug/L	2	4.00		72	31-124%	2	30%	
2,4-Dinitrophenol	3.10	0.500	1.00	ug/L	2	4.00		77	23-143%	2	30%	Q-3
,6-Dinitro-2-methylphenol	2.81	0.500	1.00	ug/L	2	4.00		70	44-137%	3	30%	
2-Methylphenol	2.88	0.0500	0.100	ug/L	2	4.00		72	30-120%	0.5	30%	
3+4-Methylphenol(s)	2.62	0.0500	0.100	ug/L	2	4.00		65	29-120%	1	30%	
2-Nitrophenol	2.91	0.200	0.400	ug/L	2	4.00		73	47-123%	5	30%	
l-Nitrophenol	1.24	0.200	0.400	ug/L	2	4.00		31	10-120%	5	30%	
Pentachlorophenol (PCP)	3.20	0.200	0.400	ug/L	2	4.00		80	35-138%	1	30%	
Phenol	1.16	0.400	0.800	ug/L ug/L	2	4.00		29	10-120%	2	30%	
2,3,4,6-Tetrachlorophenol	2.90	0.100	0.200	ug/L ug/L	2	4.00		72	50-128%	0.9	30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 43 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Dilution Analyte Result Limit Units Amount Result % REC Limits RPD Limit Limit Notes Batch 1031212 - EPA 3510C (Acid Extraction) Water LCS Dup (1031212-BSD2) Prepared: 03/31/21 10:35 Analyzed: 03/31/21 17:59 Q-19 0.100 2,3,5,6-Tetrachlorophenol 3.14 0.200 ug/L 2 4.00 50-121% 2 30% 2.99 0.100 0.200 2 75 2,4,5-Trichlorophenol ug/L 4.00 53-123% 0.5 30% 2 2,4,6-Trichlorophenol 3.09 0.1000.200ug/L 4.00 77 50-125% 0.07 30% Bis(2-ethylhexyl)phthalate 3.69 0.400 0.800 ug/L 2 4.00 92 55-135% 1 30% 2 103 Butyl benzyl phthalate 4.10 0.4000.800ug/L 4.00 53-134% 3 30% Diethylphthalate 3.33 0.400 2 4.00 83 56-125% 0.800 ug/L 4 30% Dimethylphthalate 0.400 2 79 3 3.17 0.800ug/L 4.00 45-127% 30% Di-n-butylphthalate 3.96 0.400 0.800 2 4.00 99 59-127% 3 30% ug/L 0.400 2 4.33 0.800 4.00 108 51-140% 0.9 Di-n-octyl phthalate ug/L 30% Surr: Nitrobenzene-d5 (Surr) 91% Recovery: Limits: 44-120 % Dilution: 2x 2-Fluorobiphenyl (Surr) 63 % 44-120 % Phenol-d6 (Surr) 30 % 10-133 % p-Terphenyl-d14 (Surr) 50-134 % 84 %

19-120 %

43-140 %

44 %

76 %

Apex Laboratories

Philip Nevenberg

2-Fluorophenol (Surr)

2,4,6-Tribromophenol (Surr)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 44 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total N	letals by	EPA 200	.8 (ICPMS	5)						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 1040156 - EPA 3015A							Wat	er					
Blank (1040156-BLK1)			Prepared	: 04/06/21	09:05 Anal	yzed: 04/06	/21 22:43						
EPA 200.8													
Chromium	ND	0.500	1.00	ug/L	1								
Mercury	ND	0.0400	0.0800	ug/L	1								
Zinc	ND	2.00	4.00	ug/L	1								
LCS (1040156-BS1)		Prepared: 04/06/21 09:05 Analyzed: 04/06/21 22:47											
EPA 200.8													
Chromium	51.1	0.500	1.00	ug/L	1	55.6		92	85-115%				
Mercury	1.06	0.0400	0.0800	ug/L	1	1.11		95	85-115%				
Zinc	54.3	2.00	4.00	ug/L	1	55.6		98	85-115%				
Duplicate (1040156-DUP1)			Prepared	: 04/06/21	09:05 Anal	yzed: 04/06	/21 23:05						
QC Source Sample: Non-SDG (A1	C1047-20)												
Chromium	ND	0.500	1.00	ug/L	1		ND				20%		
Mercury	ND	0.0400	0.0800	ug/L	1		ND				20%		
Zinc	6.49	2.00	4.00	ug/L	1		6.68			3	20%		
Matrix Spike (1040156-MS1)			Prepared	: 04/06/21	09:05 Anal	yzed: 04/06	/21 23:57						
QC Source Sample: SW-2(032821)	(A1C1109-	-02)											
EPA 200.8													
Chromium	51.4	0.500	1.00	ug/L	1	55.6	ND	93	70-130%				
Mercury	1.06	0.0400	0.0800	ug/L	1	1.11	ND	95	70-130%				
Zinc	96.7	2.00	4.00	ug/L	1	55.6	41.7	99	70-130%				
Matrix Spike (1040156-MS2)			Prepared	: 04/06/21	09:05 Anal	yzed: 04/07	/21 00:50						
QC Source Sample: Non-SDG (A1	C1217-02)												
EPA 200.8	1.72	<i>5</i> .00	10.0	. 	10	75.6	110	0.7	70.1200/				
Chromium	172	5.00	10.0	ug/L	10	55.6	118 NB		70-130%				
Mercury	1.01	0.400	0.800	ug/L	10	1.11	ND		70-130%				
Zinc	64.2	20.0	40.0	ug/L	10	55.6	ND	116	70-130%				

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 45 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

		То	tal Metals	by EPA	200.8 (ICF	MS) - Lov	w Level					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits		RPD Limit	Notes
Batch 1040504 - EPA 3015A							Wat	er				
Blank (1040504-BLK1)			Prepared	: 04/14/21	15:50 Anal	lyzed: 04/19	/21 15:50					
EPA 200.8-LL												
Arsenic	ND	0.0500	0.100	ug/L	1							
Cadmium	ND	0.00900	0.0180	ug/L	1							
LCS (1040504-BS1)			Prepared	: 04/14/21	15:50 Anal	lyzed: 04/19	/21 15:57					
EPA 200.8-LL												
Arsenic	5.75	0.0500	0.100	ug/L	1	5.56		103	85-115%			
Cadmium	5.72	0.00900	0.0180	ug/L	1	5.56		103	85-115%			
Duplicate (1040504-DUP1)			Prepared	: 04/14/21	15:50 Anal	lyzed: 04/19	/21 16:32					
OC Source Sample: SW-1(032821)	(A1C1109-	<u>-01)</u>										
EPA 200.8-LL												
Arsenic	0.124	0.0500	0.100	ug/L	1		0.143			15	20%	
Duplicate (1040504-DUP2)			Prepared	: 04/14/21	15:50 Anal	lyzed: 04/19	/21 20:26					
QC Source Sample: SW-1(032821)	(A1C1109-	-01RE1)										
EPA 200.8-LL												
Cadmium	0.0316	0.00900	0.0180	ug/L	1		0.0379			18	20%	Q-1
Matrix Spike (1040504-MS1)			Prepared	: 04/14/21	15:50 Anal	lyzed: 04/19	/21 16:39					
QC Source Sample: SW-1(032821)	(A1C1109-	-01)										
EPA 200.8-LL												
Arsenic	6.03	0.0500	0.100	ug/L	1	5.56	0.143	106	70-130%			
Matrix Spike (1040504-MS2)			Prepared	: 04/14/21	15:50 Anal	lyzed: 04/19	/21 20:32					
QC Source Sample: SW-1(032821)	(A1C1109-	-01RE1)										
EPA 200.8-LL												
Cadmium	5.53	0.00900	0.0180	ug/L	1	5.56	0.0379	99	70-130%			Q-1

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Newsberg

Page 46 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALITY CONTROL (QC) SAMPLE RESULTS

			Solid a	and Mois	ture Dete	rmination	s					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1040705 - Total Susper	ded Solid	s					Wat	er				
Blank (1040705-BLK1)			Prepared	: 04/20/21	13:10 Ana	lyzed: 04/22	/21 10:49					
SM 2540 D Total Suspended Solids	ND	5.00	5.00	mg/L	1							
Duplicate (1040705-DUP1)			Prepared	: 04/20/21	13:10 Ana	lyzed: 04/22	/21 10:49					
QC Source Sample: SW-1(032821 SM 2540 D) (A1C1109	<u>-01)</u>										
Total Suspended Solids	10.0	5.00	5.00	mg/L	1		8.00			22	10%	H-06, Q-05
Reference (1040705-SRM1)			Prepared	: 04/20/21	13:10 Ana	lyzed: 04/22	/21 10:49					
SM 2540 D Total Suspended Solids	962			mg/L	1	951		101	87-116%			

Apex Laboratories

Philip Newsberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 47 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

SAMPLE PREPARATION INFORMATION

		Diesel an	d/or Oil Hydrocarbor	s by NWTPH-Dx			
Prep: EPA 3510C (F	uels/Acid Ext.)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1040078							
A1C1109-01	Water	NWTPH-Dx	03/28/21 15:55	04/02/21 12:02	1050 mL/5 mL	1000 mL/5 mL	0.95
A1C1109-02	Water	NWTPH-Dx	03/28/21 16:00	04/02/21 12:02	1070mL/5mL	1000mL/5mL	0.94
A1C1109-03	Water	NWTPH-Dx	03/28/21 16:05	04/02/21 12:02	1070 mL/5 mL	1000mL/5mL	0.94

	Gas	soline Range Hydrocart	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1031194							
A1C1109-01	Water	NWTPH-Gx (MS)	03/28/21 15:55	03/31/21 10:00	5mL/5mL	5mL/5mL	1.00
A1C1109-02	Water	NWTPH-Gx (MS)	03/28/21 16:00	03/31/21 10:00	5mL/5mL	5mL/5mL	1.00
A1C1109-03	Water	NWTPH-Gx (MS)	03/28/21 16:05	03/31/21 10:00	5mL/5mL	5mL/5mL	1.00

		Volatile	Organic Compounds	by EPA 8260D			
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1031194							
A1C1109-01	Water	EPA 8260D	03/28/21 15:55	03/31/21 10:00	5mL/5mL	5mL/5mL	1.00
A1C1109-02	Water	EPA 8260D	03/28/21 16:00	03/31/21 10:00	5mL/5mL	5mL/5mL	1.00
A1C1109-03	Water	EPA 8260D	03/28/21 16:05	03/31/21 10:00	5mL/5mL	5mL/5mL	1.00

		Volatile Or	ganic Compounds b	y EPA 8260D SIM			
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1040059							
A1C1109-01	Water	EPA 8260D SIM	03/28/21 15:55	04/02/21 12:37	5mL/5mL	5mL/5mL	1.00
A1C1109-02	Water	EPA 8260D SIM	03/28/21 16:00	04/02/21 12:37	5mL/5mL	5mL/5mL	1.00
A1C1109-03	Water	EPA 8260D SIM	03/28/21 16:05	04/02/21 12:37	5mL/5mL	5mL/5mL	1.00
A1C1109-04	Water	EPA 8260D SIM	03/28/21 00:00	04/02/21 12:37	5mL/5mL	5mL/5mL	1.00
A1C1109-05	Water	EPA 8260D SIM	03/28/21 00:00	04/02/21 12:37	5mL/5mL	5mL/5mL	1.00
A1C1109-06	Water	EPA 8260D SIM	03/28/21 00:00	04/02/21 12:37	5mL/5mL	5mL/5mL	1.00

Polychlorinated Biphenyls by EPA 8082A

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 48 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

SAMPLE PREPARATION INFORMATION

		Polych	nlorinated Biphenyls l	by EPA 8082A			
Prep: EPA 3510C (Neutral pH)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1040065							
A1C1109-01	Water	EPA 8082A	03/28/21 15:55	04/02/21 10:31	1000 mL/2 mL	1000 mL/2 mL	1.00
A1C1109-02	Water	EPA 8082A	03/28/21 16:00	04/02/21 10:31	1070mL/2mL	1000mL/2mL	0.94
A1C1109-03	Water	EPA 8082A	03/28/21 16:05	04/02/21 10:31	1070 mL/2 mL	1000 mL/2 mL	0.94

		Semivolat	ile Organic Compour	nds by EPA 8270E			
Prep: EPA 3510C (Ac	cid Extraction)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1031212							
A1C1109-01RE2	Water	EPA 8270E	03/28/21 15:55	03/31/21 15:07	980mL/1mL	1000 mL/1 mL	1.02
A1C1109-02RE1	Water	EPA 8270E	03/28/21 16:00	03/31/21 15:07	1070 mL/1 mL	1000 mL/1 mL	0.94
A1C1109-03RE1	Water	EPA 8270E	03/28/21 16:05	03/31/21 15:07	1070 mL/1 mL	1000 mL/1 mL	0.94

		Tot	al Metals by EPA 200	0.8 (ICPMS)			
Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1040156							
A1C1109-01	Water	EPA 200.8	03/28/21 15:55	04/06/21 09:05	45mL/50mL	45 mL/50 mL	1.00
A1C1109-02	Water	EPA 200.8	03/28/21 16:00	04/06/21 09:05	45mL/50mL	45 mL/50 mL	1.00
A1C1109-03	Water	EPA 200.8	03/28/21 16:05	04/06/21 09:05	45mL/50mL	45mL/50mL	1.00

		Total Meta	als by EPA 200.8 (IC	PMS) - Low Level			
Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1040504							
A1C1109-01	Water	EPA 200.8-LL	03/28/21 15:55	04/14/21 15:50	45mL/50mL	45mL/50mL	1.00
A1C1109-01RE1	Water	EPA 200.8-LL	03/28/21 15:55	04/14/21 15:50	45mL/50mL	45mL/50mL	1.00
A1C1109-02	Water	EPA 200.8-LL	03/28/21 16:00	04/14/21 15:50	45mL/50mL	45mL/50mL	1.00
A1C1109-02RE3	Water	EPA 200.8-LL	03/28/21 16:00	04/14/21 15:50	45mL/50mL	45mL/50mL	1.00
A1C1109-03	Water	EPA 200.8-LL	03/28/21 16:05	04/14/21 15:50	45mL/50mL	45mL/50mL	1.00
A1C1109-03RE1	Water	EPA 200.8-LL	03/28/21 16:05	04/14/21 15:50	45mL/50mL	45mL/50mL	1.00

Solid and Moisture Determinations

Apex Laboratories

Philip Newsberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 49 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

SAMPLE PREPARATION INFORMATION

		So	lid and Moisture Dete	erminations			
Prep: Total Suspende	ed Solids				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1040705							
A1C1109-01	Water	SM 2540 D	03/28/21 15:55	04/20/21 13:10			NA
A1C1109-02	Water	SM 2540 D	03/28/21 16:00	04/20/21 13:10			NA
A1C1109-03	Water	SM 2540 D	03/28/21 16:05	04/20/21 13:10			NA

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 50 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- E Estimated Value. The result is above the calibration range of the instrument.
- F-11 The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
- F-12 The result for this hydrocarbon range is primarily due to the presence of individual analyte peaks in the quantitation range. No fuel pattern detected.
- H-06 This sample was received, or the analysis requested, outside the recommended holding time.
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-05 Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-16 Reanalysis of an original Batch QC sample.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- Q-24 The RPD for this spike and spike duplicate is above established control limits. Recoveries for both the spike and spike duplicate are within control limits.
- Q-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low.
- Q-42 Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +1%. The results are reported as Estimated Values.
- Q-54a Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +15%. The results are reported as Estimated Values.
- Q-54b Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +5%. The results are reported as Estimated Values.
- Q-54c Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +8%. The results are reported as Estimated Values.
- Q-54d Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -2%. The results are reported as Estimated Values.
- Q-54e Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -5%. The results are reported as Estimated Values.
- Q-55 Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 51 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

Q-56 Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

R-04 Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Menherg

Page 52 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

<u>Detection Limits:</u> Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

"___" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

"---" QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

- -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 53 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 54 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories

Matrix Analysis TNI_ID Analyte TNI_ID Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Philip Nevenberg

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 55 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1C1109 - 04 27 21 1611

	-		1			\vdash			ŀ		1			1		\vdash		1	l			
Company: 6colosis	Project N	Project Mgr. Lyl	본	Hasaort	ŧ	\neg	Projec	t Nam	1	3	4	ş	3	Project Name: 10 (www. Autowatic Violety C. Project #: 665 Angica-1-02	Š	3	oject #	2	돐	3	7	ŭ
Address: 9450 5W COMMUTCE	- 1	S	윤	Sine: 5	2	46	8	7 En	Jail.	7	书	ङ्ग	Ĭ	Phone: 503 968 8787 Email: K-J.C. Hargart & NUS, Compos	3,5	\$	*					
Sampled by: (im Hainle)	1626	Hassant	+									ANAI	YSIS	ANALYSIS REQUEST	ST							
Site Location: OR WA CA AK ID	LAB ID #	A XIATAM	# OF CONTAINERS	xd-H4TWN	NWTPH-Gx	8760 BTEX	8700 KBDW AOC8	8760 VOCs Full List	8HV4 MIS 0718	8270 Semi-Vols Full List	8087 PCBs	8081 Pest	RCRA Metals (8)	Priority Metals (13)	AL Sh. (45) BB, Be, Cd. Ca, CD. Ca, Fe, Ph. (45) Mg, Who, Mo, Mi, K, Se, Ag, Ag, Ag, V, CD. V, CD.		TCLP Metals (8)	Dioxins/ Farins	30128 SAMMAHAS			
SW-1(032821)	2/18	MS 5551 82/2		×	×	T		×	X		×				\times		<u> </u>	×	X			-
12828072-MG	82/5	MS 0091 82/5		×	*			×	_		×				×			×	<u>х</u>			
128250) AM (-2-M5	3/18	3/28 1605 SW		×	*			×	×		×				×	-		×	×			
(128250)87-1-W	3/14	2					-	×														-
128250387-3-WS	348	P						^	~									_				
5w-2-Dup. 18 Costerd	1114	TB						×									\vdash					-
																+						
							+	+	+					\forall		+		+	+		$\forall \exists$	
Normal Tun	Around Time	Normal Turn Around Time (TAT) = 10 Business Day	siness Da	<i>[</i>				S S	SPECIAL INSTRUCTIONS:	LINS	TRU	OLL:	işi İşi	-	;	3						
TAT December of Arisales	1 Day	2 Day	3 Day					_	Lear Mary	7	3	3		ar arremina	3	ž						
	4 DAY	5 DAY	Other:				٠, ١															
	SAMPLES ARE HELD FOR 30 DAYS	FOR 30 DAYS			-	-		+					1			ŀ	1		1			-
Signature.	Date: 7/29/1/ /	RECEIVED BY:	-4		Date	Date:	7	Sig .	RELINQUISHED BY: Signature:	UISH	SD BY				Date:	<u>x</u> <u>v</u>	ECEN gnature	RECEIVED BY: Signature:	<u>.</u>	_	Date:	
Printed Name:	Time: 7 %	Printed Name:	3	1	THE ST	73)		- E	Printed Name	ame:					Time:	n.	Printed Name	vame:			Time:	
Company:		Company:	S	}		•		3	Company:	r.						0	Company:	54.				

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 56 of 57



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc.
9450 SW Commerce Circle

Wilsonville, OR 97070

Project: Former Automatic Vending Co.

Project Number: BCSAmerica-1-02
Project Manager: Kyle Haggart

Report ID: A1C1109 - 04 27 21 1611

	APEX LABS COOLER RECEIPT F	OKW
Client: GeoDesagn	Elem	nent WO#: A1 CIIO
Project/Project #: Fox	mer Automatic Vending Co. / BC	S.America-1-02
Delivery Info: Date/time received: 3 Delivered by: Apex Cooler Inspection Chain of Custody include Signed/dated by client? Signed/dated by Apex? Temperature (°C) Received on ice? (Y/N) Temp. blanks? (Y/N) Ice type: (Gel/Real/Other) Condition: Cooler out of temp? (Y/N)	Client KESS FedEx UPS Swift ate/time inspected: 3 29 1 @ 734 Ad? Yes X No Custody seals' Yes X No Yes X No Cooler #1 Cooler #2 Cooler #3 Cooler #4 3.9 2.10 0.1 Y Y Y Y Y Y Y Y Y Y Y CODE TOOLER #4 COOLER #4 C	SenvoySDSOther
Green dots applied to out of Out of temperature sample	of temperature samples? Yes/No	By: AVX
Green dots applied to out of temperature sample Sample Inspection: Dat All samples intact? Yes	of temperature samples? Yes/No	
Green dots applied to out of out of temperature sample Sample Inspection: Dat All samples intact? Yes	of temperature samples? Yes/No se form initiated? Yes/No ce/time inspected: 1/104/14 @ YWV No Comments: Yes X No Comments: TB & X 2	
Green dots applied to out of temperature sample Sample Inspection: Dat All samples intact? Yes	of temperature samples? Yes/No es form initiated? Yes/No te/time inspected: 1/104/14 @ YWV No Comments:	703
Green dots applied to out of temperature sample Sample Inspection: Dat All samples intact? Yes	of temperature samples? Yes/No se form initiated? Yes/No work time inspected: No work work with the comments: Yes X No Comments: TB & X 2 Ses form initiated? Yes No Y ed appropriate for analysis? Yes X No Comments: Yes X No No Comments: No No Y headspace? Yes X No	PO3
Green dots applied to out of temperature sample Sample Inspection: Dat All samples intact? Yes	of temperature samples? Yes/No es form initiated? Yes/No work time inspected: NO WOV WOV WOV WOV WOV WOV WOV WOV WOV WO	PO3
Green dots applied to out of temperature sample Sample Inspection: Dat All samples intact? Yes	of temperature samples? Yes/No es form initiated? Yes/No work time inspected: NO WOV WOV WOV WOV WOV WOV WOV WOV WOV WO	PO3

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-55215-1 Client Project/Site: A1C1109

For:

Apex Laboratories LLC 6700 SW Sandburg St. Tigard, Oregon 97223

Attn: Philip Nerenberg

Authorized for release by: 4/13/2021 8:56:37 AM

Lori Thompson, Project Manager I

(714)895-5494

Lori.Thompson@eurofinset.com

.....LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

2

5

6

0

9

1 1

12

11

J.

Client: Apex Laboratories LLC Project/Site: A1C1109

Laboratory Job ID: 570-55215-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receipt Checklists	16

Definitions/Glossary

Client: Apex Laboratories LLC Job ID: 570-55215-1

Project/Site: A1C1109

Qualifiers

GC/MS Semi VOA

Qualifier Qualifier Description

*1 LCS/LCSD RPD exceeds control limits.

Glossary

Abbreviation	These commonly used	abbreviations n	may or may not b	e present in this report.
--------------	---------------------	-----------------	------------------	---------------------------

Example 2 Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

4

5

6

7

8

46

44

12

15

Case Narrative

Client: Apex Laboratories LLC

Job ID: 570-55215-1 Project/Site: A1C1109

Job ID: 570-55215-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-55215-1

Comments

No additional comments.

Receipt

The samples were received on 3/30/2021 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.6° C.

GC/MS Semi VOA

Method Organotins SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-140408 and analytical batch 570-142552 recovered outside control limits for the following analytes: Tetrabutyltin and Monobutyltin. Both percent recoveries were within passing QC limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Apex Laboratories LLC Job ID: 570-55215-1

Project/Site: A1C1109

Client Sample ID: SW-1(032821) Lab Sample ID: 570-55215-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Monobutyltin	61	*1	2.7	2.2	ng/L	1		Organotins SIM	Total/NA

Client Sample ID: SW-2(032821) Lab Sample ID: 570-55215-2

No Detections.

Client Sample ID: SW-2-DUP(032821) Lab Sample ID: 570-55215-3

No Detections.

4

5

6

9

11

12

14

1!

Client Sample Results

Client: Apex Laboratories LLC Job ID: 570-55215-1

Project/Site: A1C1109

Method: Organotins SIM - Organotins (GC/MS SIM)

Client Sample ID: SW-1(032821)						Lab San	nple ID: 570-5	5215-1
Date Collected: 03/28/21 15:55								Matrix	: Water
Date Received: 03/30/21 10:00									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND	*1	2.7	1.8	ng/L		04/01/21 20:34	04/12/21 14:35	1
Tributyltin	ND		2.7	1.2	ng/L		04/01/21 20:34	04/12/21 14:35	1
Dibutyltin	ND		2.7	1.6	ng/L		04/01/21 20:34	04/12/21 14:35	1
Monobutyltin	61	*1	2.7	2.2	ng/L		04/01/21 20:34	04/12/21 14:35	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tripentyltin	43	10 - 120	04/01/21 20:34 04	1/12/21 14:35	1

Client Sample ID: SW-2(032821) Lab Sample ID: 570-55215-2 Date Collected: 03/28/21 16:00 **Matrix: Water** Date Received: 03/30/21 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND	*1	2.5	1.6	ng/L		04/01/21 20:34	04/12/21 14:53	1
Tributyltin	ND		2.5	1.1	ng/L		04/01/21 20:34	04/12/21 14:53	1
Dibutyltin	ND		2.5	1.5	ng/L		04/01/21 20:34	04/12/21 14:53	1
Monobutyltin	ND	*1	2.5	1.9	ng/L		04/01/21 20:34	04/12/21 14:53	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tripentyltin	52	10 - 120	04/01/21 20:34	04/12/21 14:53	1

Client Sample ID: SW-2-DUP(0328) Date Collected: 03/28/21 16:05	21)			La	ıb Sam	ple l		5215-3 Water
Date Received: 03/30/21 10:00								
		 	 _	_	-	_		

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND	*1	2.4	1.6	ng/L		04/01/21 20:34	04/12/21 15:11	1
Tributyltin	ND		2.4	1.1	ng/L		04/01/21 20:34	04/12/21 15:11	1
Dibutyltin	ND		2.4	1.4	ng/L		04/01/21 20:34	04/12/21 15:11	1
Monobutyltin	ND	*1	2.4	1.9	ng/L		04/01/21 20:34	04/12/21 15:11	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tripentyltin	53	10 - 120	04/01/21 20:34	04/12/21 15:11	1

Surrogate Summary

Client: Apex Laboratories LLC Job ID: 570-55215-1

Project/Site: A1C1109

Method: Organotins SIM - Organotins (GC/MS SIM)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		TPTT	
Lab Sample ID	Client Sample ID	(10-120)	
570-55215-1	SW-1(032821)	43	
570-55215-2	SW-2(032821)	52	
570-55215-3	SW-2-DUP(032821)	53	
LCS 570-140408/2-A	Lab Control Sample	50	
LCSD 570-140408/3-A	Lab Control Sample Dup	52	
MB 570-140408/1-A	Method Blank	47	
Surrogate Legend			

Eurofins Calscience LLC

3

4

6

_

10

13

16

4/13/2021

QC Sample Results

Client: Apex Laboratories LLC Job ID: 570-55215-1 Project/Site: A1C1109

Method: Organotins SIM - Organotins (GC/MS SIM)

Lab Sample ID: MB 570-140408/1-A **Client Sample ID: Method Blank**

Matrix: Water Analysis Batch: 142552

Analysis Batch: 142552								Prep Batch:	140408
	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		3.0	1.9	ng/L		04/01/21 20:34	04/12/21 13:40	1
Tributyltin	ND		3.0	1.4	ng/L		04/01/21 20:34	04/12/21 13:40	1
Dibutyltin	ND		3.0	1.8	ng/L		04/01/21 20:34	04/12/21 13:40	1
Monobutyltin	ND		3.0	2.4	ng/L		04/01/21 20:34	04/12/21 13:40	1

MB MB

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed Tripentyltin 10 - 120 04/01/21 20:34 04/12/21 13:40 47

Lab Sample ID: LCS 570-140408/2-A

Matrix: Water Prep Type: Total/NA **Analysis Batch: 142552 Prep Batch: 140408** Spike LCS LCS %Rec.

Analyte Added Result Qualifier Limits Unit D %Rec Tetrabutyltin 200 123.4 ng/L 62 21 - 124 200 Tributyltin 95.26 ng/L 48 10 - 120

LCS LCS Surrogate %Recovery Qualifier

Limits 10 - 120 Tripentyltin 50

Lab Sample ID: LCSD 570-140408/3-A

Matrix: Water

Tributyltin

Prep Batch: 140408 **Analysis Batch: 142552** LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits Tetrabutyltin 200 172.5 *1 ng/L 86

122.4

200

LCSD LCSD Surrogate %Recovery Qualifier Limits Tripentyltin 52 10 - 120 **Client Sample ID: Lab Control Sample**

Client Sample ID: Lab Control Sample Dup

61

Prep Type: Total/NA

Prep Type: Total/NA

RPD Limit 30

21 - 124 33 10 - 120 25 30

ng/L

Eurofins Calscience LLC

QC Association Summary

Client: Apex Laboratories LLC Job ID: 570-55215-1

Project/Site: A1C1109

GC/MS Semi VOA

Prep Batch: 140408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-55215-1	SW-1(032821)	Total/NA	Water	Organotin	
570-55215-2	SW-2(032821)	Total/NA	Water	Organotin	
570-55215-3	SW-2-DUP(032821)	Total/NA	Water	Organotin	
MB 570-140408/1-A	Method Blank	Total/NA	Water	Organotin	
LCS 570-140408/2-A	Lab Control Sample	Total/NA	Water	Organotin	
LCSD 570-140408/3-A	Lab Control Sample Dup	Total/NA	Water	Organotin	

Analysis Batch: 142552

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-55215-1	SW-1(032821)	Total/NA	Water	Organotins SIM	140408
570-55215-2	SW-2(032821)	Total/NA	Water	Organotins SIM	140408
570-55215-3	SW-2-DUP(032821)	Total/NA	Water	Organotins SIM	140408
MB 570-140408/1-A	Method Blank	Total/NA	Water	Organotins SIM	140408
LCS 570-140408/2-A	Lab Control Sample	Total/NA	Water	Organotins SIM	140408
LCSD 570-140408/3-A	Lab Control Sample Dup	Total/NA	Water	Organotins SIM	140408

Lab Chronicle

Client: Apex Laboratories LLC Job ID: 570-55215-1

Project/Site: A1C1109

Client Sample ID: SW-1(032821)

Lab Sample ID: 570-55215-1 Date Collected: 03/28/21 15:55

Matrix: Water

Date Received: 03/30/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin			1092.9 mL	1 mL	140408	04/01/21 20:34	W8MO	ECL 1
Total/NA	Analysis	Organotins SIM		1			142552	04/12/21 14:35	AJ2Q	ECL 1
	Instrumer	nt ID: GCMSY								

Client Sample ID: SW-2(032821)

Lab Sample ID: 570-55215-2

Date Collected: 03/28/21 16:00 **Matrix: Water**

Date Received: 03/30/21 10:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin	_		1220 mL	1 mL	140408	04/01/21 20:34	OM8W	ECL 1
Total/NA	Analysis	Organotins SIM		1			142552	04/12/21 14:53	AJ2Q	ECL 1
	Instrumer	nt ID: GCMSY								

Lab Sample ID: 570-55215-3 Client Sample ID: SW-2-DUP(032821)

Date Collected: 03/28/21 16:05 **Matrix: Water**

Date Received: 03/30/21 10:00

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin			1236.1 mL	1 mL	140408	04/01/21 20:34	W8MO	ECL 1
Total/NA	Analysis	Organotins SIM		1			142552	04/12/21 15:11	AJ2Q	ECL 1
	Instrumer	nt ID: GCMSY								

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Apex Laboratories LLC

Job ID: 570-55215-1

Project/Site: A1C1109

Laboratory: Eurofins Calscience LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
Oregon	gon NELAP		CA300001	01-30-22
The following analytes the agency does not d		eport, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Organotins SIM	Organotin	Water	Dibutyltin	
Organotins SIM	Organotin	Water	Monobutyltin	
Organotins SIM	Organotin	Water	Tetrabutyltin	
Organotins SIM	Organotin	Water	Tributyltin	
Washington		State	C916-18	10-11-21

Δ

5

7

Ŏ

10

10

4

15

Method Summary

Client: Apex Laboratories LLC

Project/Site: A1C1109

Job ID: 570-55215-1

Method	Method Description	Protocol	Laboratory
Organotins SIM	Organotins (GC/MS SIM)	Lab SOP	ECL 1
Organotin	Extraction (Organotins)	WRC	ECL 1

Protocol References:

Lab SOP = Laboratory Standard Operating Procedure
WRC = WRC Notebook 11431-39, ICI America's Western Research Center May, 1989.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

4

5

O

6

9

12

4 4

15

Sample Summary

Client: Apex Laboratories LLC Project/Site: A1C1109

Job ID: 570-55215-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asse
570-55215-1	SW-1(032821)	Water	03/28/21 15:55	03/30/21 10:00	
570-55215-2	SW-2(032821)	Water	03/28/21 16:00	03/30/21 10:00	
570-55215-3	SW-2-DUP(032821)	Water	03/28/21 16:05	03/30/21 10:00	

SUBCONTRACT ORDER

Apex Laboratories

B3hah A1C1109

SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 336-0745

Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Eurofins_CalScience 7440 Lincoln Way

Garden Grove, CA 92841-1427

Phone: (714) 895-5494 Fax: (714) 894-7501

Sample Name: SW-1(032821)		Water	Sampled:	03/28/21 15:55	(A1C1109-01)
Analysis	Due	Expires		Comments	
TBT, Butyl Tins (4) (Sub) Containers Supplied:	04/09/21 17:00	04/11/21 15:	55		
(O) LAmber Glass - Non Preserved (P) LAmber Glass - Non Preserved		v. v			
Sample Name: SW-2(032821)		Water	Sampled:	03/28/21 16:00	(A1C1109-02)
Analysis	Due	Expires		Comments	
TBT, Butyl Tins (4) (Sub) Containers Supplied: (O) L Amber Glass - Non Preserved (P) L Amber Glass - Non Preserved	04/09/21 17:00	04/11/21 16:	00		
Sample Name: SW-2-DUP(032821)		Water	Sampled:	03/28/21 16:05	(A1C1109-03)
Analysis	Due	Expires		Comments	manufacture (control of control o
TBT, Butyl Tins (4) (Sub) Containers Supplied:	04/09/21 17:00	04/11/21 16:	05		

Standard TAT

Released By

Released By

Fed Ex (Shipper)

(O) LAmber Glass - Non Preserved (P)1 L Amber Glass - Non Preserved

Received By

Fed Ex (Shipper)

Date

Received By

a

10500

Page 1 of 1 4-7/3-6 566 4/13/2021

Page 14 of 16



TUE - 30 MAR 10:30A PRIORITY OVERNIGHT

WZ APVA

Tigard, or 97223
TO DANIELLE GONSMAN
CAL SCIENCE
7440 LINCOLN WAY https://www.fedex.com/shipping/html/en/PrintIFrame.html

570-55215 Waybill

BILL SENDER

ORIGIN ID:BNOA SAMPLE CONTROL APEX LABS 6700 SW SANDBURG ST

S6DJ2SEF2FE4A

GARDEN GROVE CA 92841

Page 15 of 16

4/13/2021

Login Sample Receipt Checklist

Client: Apex Laboratories LLC Job Number: 570-55215-1

Login Number: 55215 List Source: Eurofins Calscience

List Number: 1

Creator: Ramos, Maribel

Creator. Namos, Manber		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

2

4

1

9

10

12

1,

15

www.capefearanalytical.com



April 19, 2021

Mr. Philip Nerenberg Apex Laboratories 6700 SW Sandburg Street Portland, Oregon 97223

Re: DXN & PCB Subcontract

Work Order: 17927 SDG: A1C1109

Dear Mr. Nerenberg:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on March 31, 2021. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Sincerely,

Alexis Finks for Cynde Larkins Project Manager

Enclosures

SUBCONTRACT ORDER

CFA WD#17927

Apex Laboratories A1C1109

B 3hap

SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 336-0745

Project Manager: Philip Nerenberg **RECEIVING LABORATORY:**

Cape Fear Analytical, LLC 3306 Kitty Hawk Rd Suite 120

Wilmington, NC 28405 Phone:(910) 795-0421

Fax: -

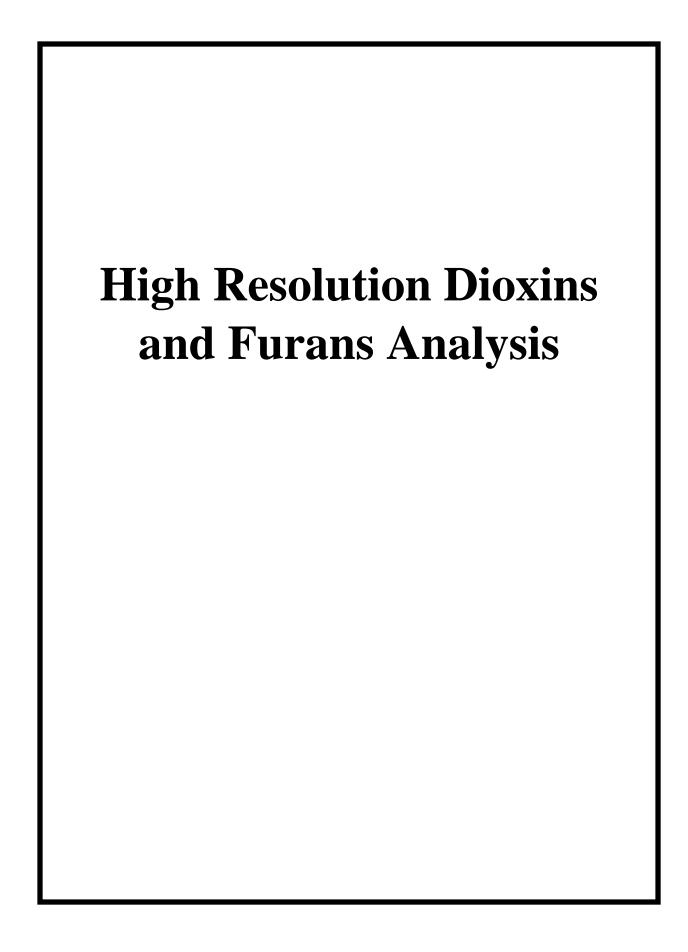
Sample Name: SW-1(032821)		Water	Sampled:	03/28/21 15:55	(A1C1109-01)
Analysis	Due	Expires		Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (M) L Amber Glass - Non Preserved (N) L Amber Glass - Non Preserved	04/09/21 17:00	03/28/22 15:	:55		
Sample Name: SW-2(032821)		Water	Sampled:	03/28/21 16:00	(A1C1109-02)
Analysis	Due	Expires		Comments	·
1613B Dioxins and Furans (SUB) Containers Supplied: (M)11 Amber Glass - Non Preserved (N)11 Amber Glass - Non Preserved	04/09/21 17:00	03/28/22 16:	00		
Sample Name: SW-2-DUP(032821)		Water	Sampled:	03/28/21 16:05	(A1C1109-03)
Analysis	Due	Expires		Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (M)/L Amber Glass - Non Preserved (N)1 Amber Glass - Non Preserved	04/09/21 17:00	03/28/22 16:	05		

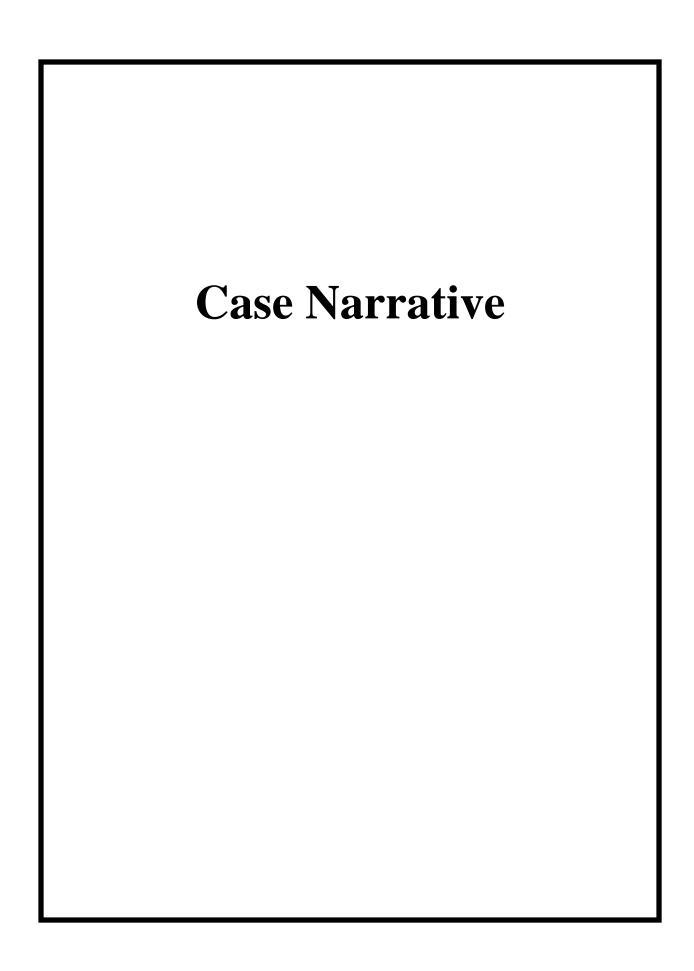
Stander

Fed Ex (Shipper) Released By Received By Date Fed Ex (Shipper) Released By Date

SAMPLE RECEIPT CHECKLIST

					Cape Fear Analytical
Clie	int: April				Work Order: 702
Ship	oping Company: Fed R		······································	·····	Date/Time Received: 3/31/21 /1:50
\vdash	pected Hazard Information	Yes	NA	No	DOE Site Sample Packages Yes NA No*
·	oped as DOT Hazardous?			\angle	Screened <0.5 mR/hr?
San	nples identified as Foreign Soil?	<u> </u>			Samples < 2x background? * Notify RSO of any responses in this column immediately.
Air	Sample Receipt Specifics	Yes	NA	No⁄	Thousand the state of the state
Air	sample in shipment?			\angle	Air Witness:
	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	$\sqrt{}$			Circle Applicable: seals broken damaged container leaking container other(describe)
2	Custody seal/s present on cooler?			$\sqrt{}$	Seal intact? Yes No
3	Chain of Custody documents included with shipment?				
4	Samples requiring cold preservation within 0-6°C?	/			Preservation Method: Ice bagy toose ice blue ice dry ice none other (describe) 3.0 + 0.1 = 3.70
5	Aqueous samples found to have visible solids?	/			Sample IDs, containers affected: -01, -03 Minimal SolfAs
5	Samples requiring chemical preservation at proper pH?	/			Sample IDs, containers affected and pH observed: All PIT = 1 If preservative added, Lot#:
7	Samples requiring preservation have no residual chlorine?	/			Sample IDs, containers affected: If preservative added, Lot#:
8	Samples received within holding time?	/			Sample iDs, tests affected:
9	Sample IDs on COC match IDs on containers?	/			Sample IDs, containers affected:
10	Date & time of COC match date & time on containers?	/			Sample IDs, containers affected:
11	Number of containers received match number indicated on COC?			/	List type and number of containers / Bample 10s, containers affected: VECCIVED & Bolen Bottles - Sac below VECCIVED 4-(LNM amby h= Hles Intent
12	COC form is properly signed in relinquished/received sections?	/			
	mments:				
1	200 kan bottes AIC1109-02N SW-2(033 SW-1(03)	- در	١		bottles received what
"	AICHOR-DIN SW-26033	1 R g	i)		AICHO9-01 N
	sw-1(03	J & Y	1)		
			/		Alcha-oam
					AIC 1109-03 m,N
					·





HDOX Case Narrative Apex Laboratories (APEX) SDG A1C1109 Work Order 17927

Method/Analysis Information

Product: Dioxins/Furans by EPA Method 1613B in Liquids

Analytical Method: EPA Method 1613B

Extraction Method: SW846 3520C

Analytical Batch Number: 46590 Clean Up Batch Number: 46588 Extraction Batch Number: 46587

Sample Analysis

Samples were received at 3.1°C. (17927001,17927002,17927003).

The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12029087	Method Blank (MB)
12029088	Laboratory Control Sample (LCS)
12029089	Laboratory Control Sample Duplicate (LCSD)
17927001	SW-1(032821)
17927002	SW-2(032821)
17927003	SW-2-DUP(032821)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 20.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Page 6 of 27 Work Order: 17927

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (CCV) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement

The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Receipt Temperature

Samples were received within temperature requirements.

Holding Time Specifications

CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Page 7 of 27 Work Order: 17927

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Nonconformance (NCR) Documentation

A NCR was not required for this SDG.

Manual Integrations

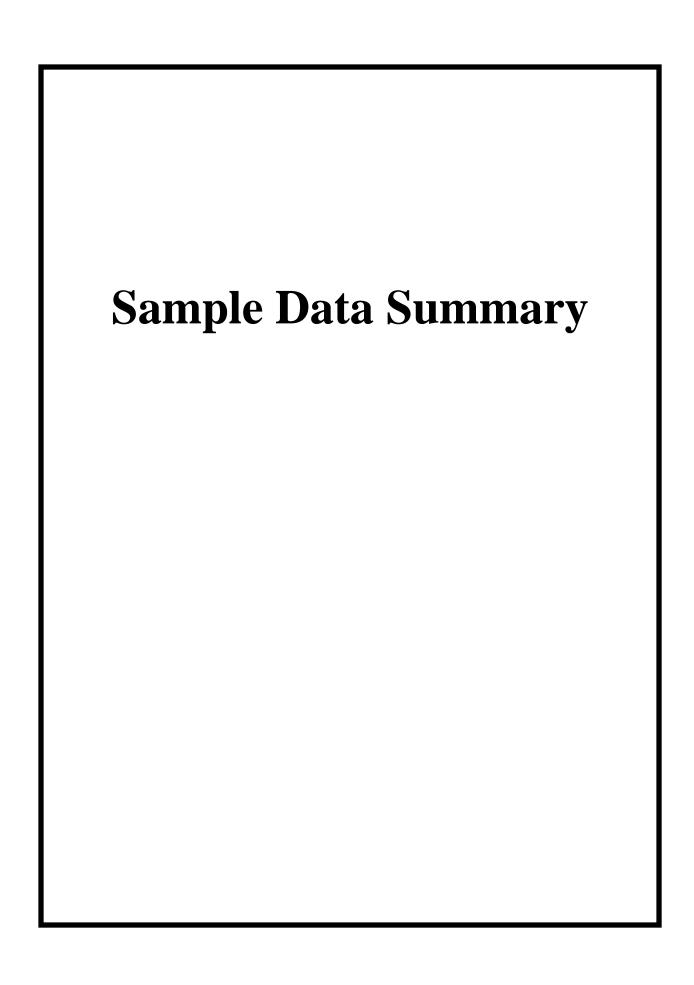
Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP763_1	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Page 8 of 27 Work Order: 17927



Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report for

APEX001 Apex Laboratories

Client SDG: A1C1109 CFA Work Order: 17927

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- K Estimated Maximum Possible Concentration
- U Analyte was analyzed for, but not detected above the specified detection limit.
- DL Indicates that sample is diluted.
- RA Indicates that sample is re-analyzed without re-extraction.
- RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: Suhrie Name: Erin Suhrie

Date: 19 APR 2021 Title: Data Validator

Page 10 of 27 Work Order: 17927

Page 1

April 19, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1C1109 SDG Number: 17927001 Lab Sample ID: 1613B Water **Client Sample:** SW-1(032821)

Date Collected: Date Received:

APEX001 03/28/2021 15:55 03/31/2021 11:50 **Project:** Matrix:

Prep Basis:

APEX00320 WATER

As Received

Client ID: Batch ID:

Data File:

46590 **Run Date:**

Method: 04/16/2021 04:09 **Analyst:** b14apr21a_4-8

EPA Method 1613B MJC

Instrument: HRP763 Dilution: 1

Prep Batch: 46587 **Prep Date:** 14-APR-21

Prep Aliquot:

Client:

SW846 3520C **Prep Method:** 1013.6 mL

Trep Date.	14-Af K-21	Trep inquot.	10101011112			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.90	pg/L	1.90	9.87
40321-76-4	1,2,3,7,8-PeCDD	U	1.78	pg/L	1.78	49.3
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.37	pg/L	2.37	49.3
57653-85-7	1,2,3,6,7,8-HxCDD	JK	2.62	pg/L	2.39	49.3
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.41	pg/L	2.41	49.3
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	44.8	pg/L	8.25	49.3
3268-87-9	1,2,3,4,6,7,8,9-OCDD		230	pg/L	11.4	98.7
51207-31-9	2,3,7,8-TCDF	U	1.84	pg/L	1.84	9.87
57117-41-6	1,2,3,7,8-PeCDF	U	1.72	pg/L	1.72	49.3
57117-31-4	2,3,4,7,8-PeCDF	U	1.54	pg/L	1.54	49.3
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.16	pg/L	1.16	49.3
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.16	pg/L	1.16	49.3
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.17	pg/L	1.17	49.3
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.66	pg/L	1.66	49.3
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	2.62	pg/L	1.32	49.3
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	1.88	pg/L	1.88	49.3
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	5.39	pg/L	5.39	98.7
41903-57-5	Total TeCDD	U	1.90	pg/L	1.90	9.87
36088-22-9	Total PeCDD	U	1.78	pg/L	1.78	49.3
34465-46-8	Total HxCDD	JK	18.2	pg/L	2.37	49.3
37871-00-4	Total HpCDD	J	109	pg/L	8.25	49.3
30402-14-3	Total TeCDF	U	1.84	pg/L	1.84	9.87
30402-15-4	Total PeCDF	U	1.24	pg/L	1.24	49.3
55684-94-1	Total HxCDF	JK	1.89	pg/L	1.16	49.3
38998-75-3	Total HpCDF	J	5.64	pg/L	1.32	49.3
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		0.805	pg/L		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		3.50	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1550	1970	pg/L	78.5	(25%-164%)
13C-1,2,3,7,8-PeCDD		1480	1970	pg/L	74.9	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1330	1970	pg/L	67.4	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1420	1970	pg/L	72.2	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1410	1970	pg/L	71.3	(23%-140%)
13C-OCDD		2500	3950	pg/L	63.4	(17%-157%)
13C-2,3,7,8-TCDF		1350	1970	pg/L	68.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		1430	1970	pg/L	72.6	(24%-185%)
13C-2,3,4,7,8-PeCDF		1490	1970	pg/L	75.3	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1320	1970	pg/L	67.1	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1420	1970	pg/L	72.1	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1430	1970	pg/L	72.4	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1410	1970	pg/L	71.5	(29%-147%)

Page 2

Dilution:

1

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

APEX001 APEX00320 SDG Number: A1C1109 Client: **Project:** 03/28/2021 15:55 17927001 WATER Lab Sample ID: **Date Collected:** Matrix: 03/31/2021 11:50

1613B Water Date Received: **Client Sample:**

Client ID: SW-1(032821) **Prep Basis:** As Received **Batch ID:** 46590 Method: EPA Method 1613B 04/16/2021 04:09 **Instrument: HRP763 Run Date:** Analyst: MJC

Data File: b14apr21a_4-8 SW846 3520C 46587 **Prep Method:** Prep Batch: **Prep Aliquot:** 1013.6 mL **Prep Date:** 14-APR-21

CAS No. Units **EDL PQL Parmname** Qual Result

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1330	1970	pg/L	67.6	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1370	1970	pg/L	69.3	(26%-138%)
37Cl-2,3,7,8-TCDD		189	197	pg/L	95.9	(35%-197%)

Comments:

Value is estimated J

Estimated Maximum Possible Concentration K

Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

April 19, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1C1109 SDG Number: 17927002 Lab Sample ID: 1613B Water **Client Sample: Client ID:**

SW-2(032821)

Batch ID: 46590 04/16/2021 04:59 **Run Date:** Data File: b14apr21a_4-9

46587 Prep Batch: Prep Date: 14-APR-21

APEX001 Client: 03/28/2021 16:00 **Date Collected:**

03/31/2021 11:50 Date Received:

Method: EPA Method 1613B **Analyst:** MJC

SW846 3520C **Prep Method:** Prep Aliquot: 1044.3 mL

Project: APEX00320 WATER Matrix:

Prep Basis: As Received

Instrument: HRP763 Dilution: 1

Prep Date:	14-APR-21	Prep Aliquot:	1044.3 mL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.09	pg/L	2.09	9.58
40321-76-4	1,2,3,7,8-PeCDD	U	2.68	pg/L	2.68	47.9
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.50	pg/L	3.50	47.9
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.37	pg/L	3.37	47.9
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.47	pg/L	3.47	47.9
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	34.6	pg/L	6.36	47.9
3268-87-9	1,2,3,4,6,7,8,9-OCDD		245	pg/L	22.8	95.8
51207-31-9	2,3,7,8-TCDF	U	2.51	pg/L	2.51	9.58
57117-41-6	1,2,3,7,8-PeCDF	U	1.70	pg/L	1.70	47.9
57117-31-4	2,3,4,7,8-PeCDF	U	1.57	pg/L	1.57	47.9
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.40	pg/L	1.40	47.9
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.41	pg/L	1.41	47.9
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.40	pg/L	1.40	47.9
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.28	pg/L	2.28	47.9
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	1.82	pg/L	1.69	47.9
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.01	pg/L	3.01	47.9
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	7.41	pg/L	7.41	95.8
41903-57-5	Total TeCDD	U	2.09	pg/L	2.09	9.58
36088-22-9	Total PeCDD	U	2.68	pg/L	2.68	47.9
34465-46-8	Total HxCDD	JK	15.0	pg/L	3.37	47.9
37871-00-4	Total HpCDD	J	91.7	pg/L	6.36	47.9
30402-14-3	Total TeCDF	U	2.51	pg/L	2.51	9.58
30402-15-4	Total PeCDF	U	1.57	pg/L	1.57	47.9
55684-94-1	Total HxCDF	U	1.40	pg/L	1.40	47.9
38998-75-3	Total HpCDF	J	1.82	pg/L	1.69	47.9
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		0.438	pg/L		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		4.07	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1330	1920	pg/L	69.3	(25%-164%)
13C-1,2,3,7,8-PeCDD		1180	1920	pg/L	61.7	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1090	1920	pg/L	57.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1250	1920	pg/L	65.3	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1120	1920	pg/L	58.5	(23%-140%)
13C-OCDD		1830	3830	pg/L	47.8	(17%-157%)
13C-2,3,7,8-TCDF		1100	1920	pg/L	57.3	(24%-169%)
13C-1,2,3,7,8-PeCDF		1150	1920	pg/L	60.2	(24%-185%)
13C-2,3,4,7,8-PeCDF		1190	1920	pg/L	62.2	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1140	1920	pg/L	59.4	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1210	1920	pg/L	63.1	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1230	1920	pg/L	64.3	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1120	1920	pg/L	58.3	(29%-147%)

Page 2

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

APEX001 SDG Number: A1C1109 Client: **Project:** APEX00320 17927002 03/28/2021 16:00 Lab Sample ID: **Date Collected:** Matrix: WATER

1613B Water **Date Received:** 03/31/2021 11:50 **Client Sample:**

SW-2(032821) **Prep Basis: Client ID:** As Received **Batch ID:** 46590 Method: EPA Method 1613B

Instrument: HRP763 Run Date: 04/16/2021 04:59 Analyst: MJC Data File: b14apr21a_4-9 Dilution: 1 SW846 3520C

Prep Aliquot: 1044.3 mL **Prep Date:** 14-APR-21 CAS No. Units **EDL PQL Parmname** Qual Result

Prep Method:

Surrogate/Tracer recovery Units Recovery% **Acceptable Limits** Qual Result Nominal 1100 1920 57.3 13C-1,2,3,4,6,7,8-HpCDF pg/L (28%-143%) pg/L 13C-1,2,3,4,7,8,9-HpCDF 1080 1920 56.2 (26%-138%) 37Cl-2,3,7,8-TCDD 175 192 (35%-197%) pg/L 91.4

Comments:

Prep Batch:

Value is estimated J

Estimated Maximum Possible Concentration K

46587

Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

April 19, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1C1109 SDG Number: 17927003 Lab Sample ID: 1613B Water **Client Sample:**

Client ID:

Batch ID:

SW-2-DUP(032821) 46590

04/16/2021 05:49 **Run Date:** Data File: b14apr21a_4-10 46587 Prep Batch:

Prep Date: 14-APR-21

APEX001 Client: 03/28/2021 16:05 **Date Collected:** Date Received:

03/31/2021 11:50

EPA Method 1613B MJC

SW846 3520C **Prep Method: Prep Aliquot:** 1046 mL

Method:

Analyst:

Project: APEX00320 WATER Matrix:

Prep Basis: As Received

Instrument: HRP763 Dilution: 1

Prep Date:	14-APR-21	Prep Aliquot:	1046 mL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.84	pg/L	1.84	9.56
40321-76-4	1,2,3,7,8-PeCDD	U	2.12	pg/L	2.12	47.8
39227-28-6	1,2,3,4,7,8-HxCDD	U	4.07	pg/L	4.07	47.8
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.82	pg/L	3.82	47.8
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.96	pg/L	3.96	47.8
35822-46-9	1,2,3,4,6,7,8-HpCDD		54.6	pg/L	9.75	47.8
3268-87-9	1,2,3,4,6,7,8,9-OCDD		562	pg/L	17.2	95.6
51207-31-9	2,3,7,8-TCDF	U	1.73	pg/L	1.73	9.56
57117-41-6	1,2,3,7,8-PeCDF	U	1.50	pg/L	1.50	47.8
57117-31-4	2,3,4,7,8-PeCDF	U	1.30	pg/L	1.30	47.8
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.42	pg/L	1.42	47.8
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.38	pg/L	1.38	47.8
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.39	pg/L	1.39	47.8
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.16	pg/L	2.16	47.8
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	2.45	pg/L	1.80	47.8
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.72	pg/L	2.72	47.8
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	5.56	pg/L	5.56	95.6
41903-57-5	Total TeCDD	U	1.84	pg/L	1.84	9.56
36088-22-9	Total PeCDD	U	2.12	pg/L	2.12	47.8
34465-46-8	Total HxCDD	JK	18.5	pg/L	3.82	47.8
37871-00-4	Total HpCDD		119	pg/L	9.75	47.8
30402-14-3	Total TeCDF	U	1.73	pg/L	1.73	9.56
30402-15-4	Total PeCDF	U	1.30	pg/L	1.30	47.8
55684-94-1	Total HxCDF	U	1.38	pg/L	1.38	47.8
38998-75-3	Total HpCDF	JK	6.44	pg/L	1.80	47.8
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		0.739	pg/L		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		3.95	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits	
13C-2,3,7,8-TCDD		1530	1910	pg/L	79.9	(25%-164%)	
13C-1,2,3,7,8-PeCDD		1400	1910	pg/L	73.3	(25%-181%)	
13C-1,2,3,4,7,8-HxCDD		1210	1910	pg/L	63.2	(32%-141%)	
13C-1,2,3,6,7,8-HxCDD		1410	1910	pg/L	74.0	(28%-130%)	
13C-1,2,3,4,6,7,8-HpCDD		1320	1910	pg/L	68.9	(23%-140%)	
13C-OCDD		2300	3820	pg/L	60.2	(17%-157%)	
13C-2,3,7,8-TCDF		1280	1910	pg/L	66.9	(24%-169%)	
13C-1,2,3,7,8-PeCDF		1360	1910	pg/L	71.1	(24%-185%)	
13C-2,3,4,7,8-PeCDF		1420	1910	pg/L	74.2	(21%-178%)	
13C-1,2,3,4,7,8-HxCDF		1260	1910	pg/L	65.6	(26%-152%)	
13C-1,2,3,6,7,8-HxCDF		1330	1910	pg/L	69.8	(26%-123%)	
13C-2,3,4,6,7,8-HxCDF		1380	1910	pg/L	72.3	(28%-136%)	
13C-1,2,3,7,8,9-HxCDF		1350	1910	pg/L	70.6	(29%-147%)	

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

SDG Number: A1C1109 Client: APEX001 Project: APEX00320
Lab Sample ID: 17927003 Date Collected: 03/28/2021 16:05 Matrix: WATER
Client Sample: 1613B Water Date Received: 03/31/2021 11:50

Analyst:

Qual

Client Sample: 1613B Water
Client ID: SW-2-DUP(032821)

Batch ID: SW-2-DUP(032821)

846590

Run Date: 04/16/2021 05:49

Data File: b14apr21a_4-10

Prep Batch: 46587 Prep Date: 14-APR-21 Method: EPA Method 1613B

MJC

Prep Method: SW846 3520C

Prep Aliquot: 1046 mL

Page 2

As Received

HRP763

PQL

1

Prep Basis:

Instrument:

EDL

Dilution:

Units

of 2

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1250	1910	pg/L	65.1	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1330	1910	pg/L	69.4	(26%-138%)
37Cl-2,3,7,8-TCDD		197	191	pg/L	103	(35%-197%)

Result

Comments:

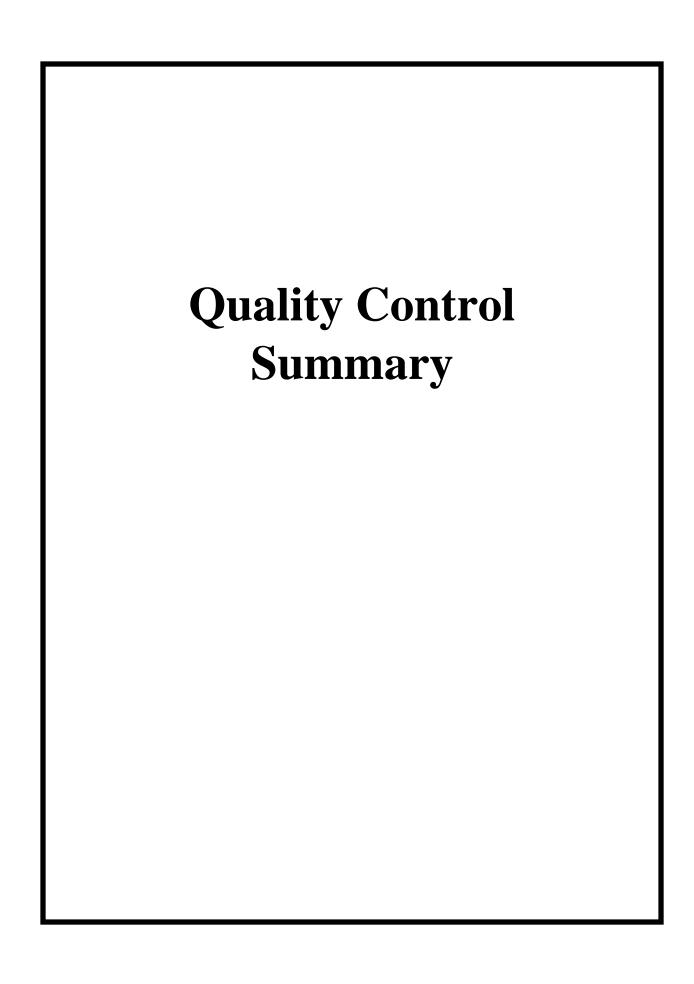
CAS No.

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for, but not detected above the specified detection limit.

Parmname



Report Date: April 19, 2021 Page 1

of 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A1C1109 Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
2029088	LCS for batch 46587	13C-2,3,7,8-TCDD		84.6	(20%-175%)
		13C-1,2,3,7,8-PeCDD		80.9	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		71.4	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		84.1	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		76.4	(22%-166%)
		13C-OCDD		66.2	(13%-199%)
		13C-2,3,7,8-TCDF		73.1	(22%-152%)
		13C-1,2,3,7,8-PeCDF		77.3	(21%-192%)
		13C-2,3,4,7,8-PeCDF		79.6	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		74.1	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		84.7	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		82.3	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		78.1	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		74.2	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		77.1	(20%-186%)
		37Cl-2,3,7,8-TCDD		99.8	(31%-191%)
2029089	LCSD for batch 46587	13C-2,3,7,8-TCDD		93.9	(20%-175%)
		13C-1,2,3,7,8-PeCDD		87.2	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		71.7	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		80.4	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		74.6	(22%-166%)
		13C-OCDD		62.2	(13%-199%)
		13C-2,3,7,8-TCDF		75.2	(22%-152%)
		13C-1,2,3,7,8-PeCDF		82.6	(21%-192%)
		13C-2,3,4,7,8-PeCDF		86.5	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		71.7	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		79.6	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		78.2	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		77.7	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		71.7	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		73.5	(20%-186%)
		37Cl-2,3,7,8-TCDD		110	(31%-191%)
2029087	MB for batch 46587	13C-2,3,7,8-TCDD		91.5	(25%-164%)
2027007	Wild for batch 10507	13C-1,2,3,7,8-PeCDD		82.3	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		69.6	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		81.4	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		73.6	(23%-140%)
		13C-OCDD		62.8	(17%-157%)
		13C-2,3,7,8-TCDF		73.6	(24%-169%)
		13C-1,2,3,7,8-PeCDF		79.7	(24%-185%)
		13C-2,3,4,7,8-PeCDF		81.4	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		73.9	(26%-152%)
		13C-1,2,3,4,7,6-HXCDF		78.4	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		77.1	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		78.0	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		68.8	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		74.7	(26%-138%)
		37Cl-2,3,7,8-TCDD		107	(35%-197%)
7927001	SW-1(032821)	13C-2,3,7,8-TCDD		78.5	(25%-164%)

of 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A1C1109 Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
7927001	SW-1(032821)	13C-1,2,3,7,8-PeCDD		74.9	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		67.4	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		72.2	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		71.3	(23%-140%)
		13C-OCDD		63.4	(17%-157%)
		13C-2,3,7,8-TCDF		68.6	(24%-169%)
		13C-1,2,3,7,8-PeCDF		72.6	(24%-185%)
		13C-2,3,4,7,8-PeCDF		75.3	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		67.1	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		72.1	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		72.4	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		71.5	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		67.6	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		69.3	(26%-138%)
		37Cl-2,3,7,8-TCDD		95.9	(35%-197%)
927002	SW-2(032821)	13C-2,3,7,8-TCDD		69.3	(25%-164%)
		13C-1,2,3,7,8-PeCDD		61.7	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		57.1	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		65.3	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		58.5	(23%-140%)
		13C-OCDD		47.8	(17%-157%)
		13C-2,3,7,8-TCDF		57.3	(24%-169%)
		13C-1,2,3,7,8-PeCDF		60.2	(24%-185%)
		13C-2,3,4,7,8-PeCDF		62.2	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		59.4	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		63.1	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		64.3	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		58.3	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		57.3	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		56.2	(26%-138%)
		37Cl-2,3,7,8-TCDD		91.4	(35%-197%)
927003	SW-2-DUP(032821)	13C-2,3,7,8-TCDD		79.9	(25%-164%)
		13C-1,2,3,7,8-PeCDD		73.3	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		63.2	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		74.0	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		68.9	(23%-140%)
		13C-OCDD		60.2	(17%-157%)
		13C-2,3,7,8-TCDF		66.9	(24%-169%)
		13C-1,2,3,7,8-PeCDF		71.1	(24%-185%)
		13C-2,3,4,7,8-PeCDF		74.2	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		65.6	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		69.8	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		72.3	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		70.6	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		65.1	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		69.4	(26%-138%)
		37Cl-2,3,7,8-TCDD		103	(35%-197%)

^{*} Recovery outside Acceptance Limits

Report Date: April 19, 2021 Page 3

of 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A1C1109 **Matrix Type: LIQUID**

> Recovery Acceptance QUAL Surrogate Limits (%)

Client ID

D Sample Diluted

Sample ID

^{*} Recovery outside Acceptance Limits

[#] Column to be used to flag recovery values

of 2

Page 1

Hi-Res Dioxins/Furans Quality Control Summary Spike Recovery Report

Matrix:

A1C1109 **SDG Number:**

Sample Type: Laboratory Control Sample

Client ID:

LCS for batch 46587

WATER

Lab Sample ID: 12029088

Instrument:

HRP763

Analysis Date: 04/15/2021 22:20

Dilution: 1

Analyst: MJC Prep Batch ID:46587 **Batch ID:** 46590

CAS No.		D	Amount Added	Spike Conc.	•	Acceptance Limits			
AS NO.		Parmname	pg/L	pg/L	%	Limits			
746-01-6	LCS	2,3,7,8-TCDD	200	189	94.7	67-158			
0321-76-4	LCS	1,2,3,7,8-PeCDD	1000	997	99.7	70-142			
9227-28-6	LCS	1,2,3,4,7,8-HxCDD	1000	994	99.4	70-164			
7653-85-7	LCS	1,2,3,6,7,8-HxCDD	1000	1000	100	76-134			
9408-74-3	LCS	1,2,3,7,8,9-HxCDD	1000	1010	101	64-162			
5822-46-9	LCS	1,2,3,4,6,7,8-HpCDD	1000	928	92.8	70-140			
268-87-9	LCS	1,2,3,4,6,7,8,9-OCDD	2000	1900	94.9	78-144			
1207-31-9	LCS	2,3,7,8-TCDF	200	202	101	75-158			
7117-41-6	LCS	1,2,3,7,8-PeCDF	1000	1020	102	80-134			
7117-31-4	LCS	2,3,4,7,8-PeCDF	1000	1010	101	68-160			
0648-26-9	LCS	1,2,3,4,7,8-HxCDF	1000	1000	100	72-134			
7117-44-9	LCS	1,2,3,6,7,8-HxCDF	1000	1030	103	84-130			
0851-34-5	LCS	2,3,4,6,7,8-HxCDF	1000	1000	100	70-156			
2918-21-9	LCS	1,2,3,7,8,9-HxCDF	1000	1020	102	78-130			
562-39-4	LCS	1,2,3,4,6,7,8-HpCDF	1000	1010	101	82-122			
5673-89-7	LCS	1,2,3,4,7,8,9-HpCDF	1000	960	96	78-138			
9001-02-0	LCS	1,2,3,4,6,7,8,9-OCDF	2000	2000	100	63-170			

Page 2

of 2

Hi-Res Dioxins/Furans

Quality Control Summary Spike Recovery Report

SDG Number: A1C1109 Sample Type: Laboratory Control Sample Duplicate

Client ID: LCSD for batch 46587 Matrix: WATER

Lab Sample ID: 12029089

Instrument: HRP763 Analysis Date: 04/15/2021 23:09 Dilution: 1

Analyst: MJC Prep Batch ID:46587

Batch ID: 46590

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	200	180	90.1	67-158	4.99	0-20
40321-76-4	LCSD	1,2,3,7,8-PeCDD	1000	988	98.8	70-142	0.933	0-20
39227-28-6	LCSD	1,2,3,4,7,8-HxCDD	1000	970	97	70-164	2.45	0-20
57653-85-7	LCSD	1,2,3,6,7,8-HxCDD	1000	979	97.9	76-134	2.65	0-20
19408-74-3	LCSD	1,2,3,7,8,9-HxCDD	1000	1010	101	64-162	0.730	0-20
35822-46-9	LCSD	1,2,3,4,6,7,8-HpCDD	1000	959	95.9	70-140	3.24	0-20
3268-87-9	LCSD	1,2,3,4,6,7,8,9-OCDD	2000	1900	95.2	78-144	0.284	0-20
51207-31-9	LCSD	2,3,7,8-TCDF	200	193	96.6	75-158	4.51	0-20
57117-41-6	LCSD	1,2,3,7,8-PeCDF	1000	1010	101	80-134	0.281	0-20
57117-31-4	LCSD	2,3,4,7,8-PeCDF	1000	997	99.7	68-160	1.34	0-20
70648-26-9	LCSD	1,2,3,4,7,8-HxCDF	1000	1010	101	72-134	0.404	0-20
57117-44-9	LCSD	1,2,3,6,7,8-HxCDF	1000	1020	102	84-130	0.891	0-20
60851-34-5	LCSD	2,3,4,6,7,8-HxCDF	1000	1010	101	70-156	1.18	0-20
72918-21-9	LCSD	1,2,3,7,8,9-HxCDF	1000	1020	102	78-130	0.738	0-20
67562-39-4	LCSD	1,2,3,4,6,7,8-HpCDF	1000	992	99.2	82-122	2.20	0-20
55673-89-7	LCSD	1,2,3,4,7,8,9-HpCDF	1000	997	99.7	78-138	3.77	0-20
39001-02-0	LCSD	1,2,3,4,6,7,8,9-OCDF	2000	1980	99.2	63-170	0.999	0-20

April 19, 2021

Method Blank Summary

Page 1 of 1

SDG Number: **Client ID:**

A1C1109

MB for batch 46587 Lab Sample ID: 12029087

Instrument ID: HRP763 **Prep Date:**

Client:

APEX001 14-APR-21 Matrix: WATER Data File: b14apr21a_4-3

Analyzed: 04/15/21 23:59

Column:

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed	
01 LCS for batch 46587	12029088	b14apr21a_4-1	04/15/21	2220	
02 LCSD for batch 46587	12029089	b14apr21a_4-2	04/15/21	2309	
03 SW-1(032821)	17927001	b14apr21a_4-8	04/16/21	0409	
04 SW-2(032821)	17927002	b14apr21a_4-9	04/16/21	0459	
05 SW-2-DUP(032821)	17927003	b14apr21a_4-10	04/16/21	0549	

APEX00320

WATER

Page 1

April 19, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

APEX001 A1C1109 Client: **Project:** SDG Number: 12029087 Lab Sample ID: Matrix:

QC for batch 46587 **Client Sample:**

Client ID: MB for batch 46587 **Batch ID:** 46590

04/15/2021 23:59 **Run Date:**

Data File: b14apr21a_4-3 46587 Prep Batch: 14-APR-21

Method: EPA Method 1613B **Analyst:** MJC

SW846 3520C **Prep Method:** Prep Aliquot: 1000 mL

Prep Basis:

As Received

Instrument: HRP763 Dilution: 1

Prep Date:	14-APR-21 Prep Aliquot:		1000 mL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.95	pg/L	1.95	10.0
10321-76-4	1,2,3,7,8-PeCDD	U	1.58	pg/L	1.58	50.0
9227-28-6	1,2,3,4,7,8-HxCDD	U	2.42	pg/L	2.42	50.0
7653-85-7	1,2,3,6,7,8-HxCDD	U	2.34	pg/L	2.34	50.0
9408-74-3	1,2,3,7,8,9-HxCDD	U	2.38	pg/L	2.38	50.0
5822-46-9	1,2,3,4,6,7,8-HpCDD	U	3.52	pg/L	3.52	50.0
68-87-9	1,2,3,4,6,7,8,9-OCDD	U	5.64	pg/L	5.64	100
207-31-9	2,3,7,8-TCDF	U	2.40	pg/L	2.40	10.0
7117-41-6	1,2,3,7,8-PeCDF	U	1.73	pg/L	1.73	50.0
117-31-4	2,3,4,7,8-PeCDF	U	1.52	pg/L	1.52	50.0
0648-26-9	1,2,3,4,7,8-HxCDF	U	1.10	pg/L	1.10	50.0
117-44-9	1,2,3,6,7,8-HxCDF	U	1.09	pg/L	1.09	50.0
0851-34-5	2,3,4,6,7,8-HxCDF	U	1.12	pg/L	1.12	50.0
918-21-9	1,2,3,7,8,9-HxCDF	U	1.62	pg/L	1.62	50.0
562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.52	pg/L	1.52	50.0
673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.26	pg/L	2.26	50.0
001-02-0	1,2,3,4,6,7,8,9-OCDF	U	6.44	pg/L	6.44	100
903-57-5	Total TeCDD	U	1.95	pg/L	1.95	10.0
088-22-9	Total PeCDD	U	1.58	pg/L	1.58	50.0
465-46-8	Total HxCDD	U	2.34	pg/L	2.34	50.0
7871-00-4	Total HpCDD	U	3.52	pg/L	3.52	50.0
0402-14-3	Total TeCDF	U	2.40	pg/L	2.40	10.0
0402-15-4	Total PeCDF	U	1.52	pg/L	1.52	50.0
684-94-1	Total HxCDF	U	1.09	pg/L	1.09	50.0
998-75-3	Total HpCDF	U	1.52	pg/L	1.52	50.0
33-30-2	TEQ WHO2005 ND=0 with EMPCs		0.000	pg/L		
33-30-3	TEQ WHO2005 ND=0.5 with EMPCs		2.78	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1830	2000	pg/L	91.5	(25%-164%)
13C-1,2,3,7,8-PeCDD		1650	2000	pg/L	82.3	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1390	2000	pg/L	69.6	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1630	2000	pg/L	81.4	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1470	2000	pg/L	73.6	(23%-140%)
13C-OCDD		2510	4000	pg/L	62.8	(17%-157%)
13C-2,3,7,8-TCDF		1470	2000	pg/L	73.6	(24%-169%)
13C-1,2,3,7,8-PeCDF		1590	2000	pg/L	79.7	(24%-185%)
13C-2,3,4,7,8-PeCDF		1630	2000	pg/L	81.4	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1480	2000	pg/L	73.9	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1570	2000	pg/L	78.4	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1540	2000	pg/L	77.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1560	2000	pg/L	78.0	(29%-147%)

Cape Fear Analytical LLC Report Date: April 19, 2021

Page 2

HRP763

1

Instrument:

Dilution:

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

MJC

1000 mL

A1C1109 Client: APEX001 **Project:** APEX00320 SDG Number: 12029087 WATER Lab Sample ID: Matrix:

QC for batch 46587 **Client Sample:**

04/15/2021 23:59

14-APR-21

MB for batch 46587 **Client ID: Prep Basis:** As Received **Batch ID:** 46590 Method: EPA Method 1613B

Data File: b14apr21a_4-3 SW846 3520C 46587 **Prep Method:** Prep Batch:

Prep Aliquot: Prep Date: EDL PQL CAS No. Qual Units **Parmname** Result

Analyst:

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1380	2000	pg/L	68.8	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1490	2000	pg/L	74.7	(26%-138%)
37Cl-2,3,7,8-TCDD		214	200	pg/L	107	(35%-197%)

Comments:

Run Date:

Analyte was analyzed for, but not detected above the specified detection limit.

As Received

HRP763

1

Prep Basis:

Instrument:

Dilution:

Page 1

April 19, 2021

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1C1109 Client: APEX001 APEX00320 SDG Number: **Project:** 12029088 WATER Lab Sample ID: Matrix:

QC for batch 46587 **Client Sample:**

Client ID: LCS for batch 46587 **Batch ID:** 46590

04/15/2021 22:20 **Run Date:** Data File: b14apr21a_4-1

46587 Prep Batch:

SW846 3520C **Prep Method:**

Method: EPA Method 1613B **Analyst:** MJC

Prep Date:	14-APR-21	Prep Aliquot:	1000 mL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		189	pg/L	2.64	10.0
40321-76-4	1,2,3,7,8-PeCDD		997	pg/L	5.48	50.0
39227-28-6	1,2,3,4,7,8-HxCDD		994	pg/L	10.5	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		1000	pg/L	9.56	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1010	pg/L	10.0	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		928	pg/L	15.4	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1900	pg/L	31.8	100
51207-31-9	2,3,7,8-TCDF		202	pg/L	2.84	10.0
57117-41-6	1,2,3,7,8-PeCDF		1020	pg/L	6.78	50.0
57117-31-4	2,3,4,7,8-PeCDF		1010	pg/L	6.08	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1000	pg/L	8.84	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1030	pg/L	8.82	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1000	pg/L	9.46	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		1020	pg/L	13.5	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		1010	pg/L	11.2	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		960	pg/L	18.4	50.0

2000

pg/L

27.4

100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1690	2000	pg/L	84.6	(20%-175%)
13C-1,2,3,7,8-PeCDD		1620	2000	pg/L	80.9	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1430	2000	pg/L	71.4	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1680	2000	pg/L	84.1	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1530	2000	pg/L	76.4	(22%-166%)
13C-OCDD		2650	4000	pg/L	66.2	(13%-199%)
13C-2,3,7,8-TCDF		1460	2000	pg/L	73.1	(22%-152%)
13C-1,2,3,7,8-PeCDF		1550	2000	pg/L	77.3	(21%-192%)
13C-2,3,4,7,8-PeCDF		1590	2000	pg/L	79.6	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1480	2000	pg/L	74.1	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1690	2000	pg/L	84.7	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1650	2000	pg/L	82.3	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1560	2000	pg/L	78.1	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1480	2000	pg/L	74.2	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1540	2000	pg/L	77.1	(20%-186%)
37Cl-2,3,7,8-TCDD		200	200	pg/L	99.8	(31%-191%)

Comments:

39001-02-0

1,2,3,4,6,7,8,9-OCDF

Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

April 19, 2021

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

SDG Number: A1C1109 12029089

Client:

APEX001

Project: Matrix:

APEX00320 WATER

Lab Sample ID: QC for batch 46587 **Client Sample:**

2,3,7,8-TCDD

1,2,3,7,8-PeCDD

1,2,3,4,7,8-HxCDD

1,2,3,6,7,8-HxCDD

1,2,3,7,8,9-HxCDD

1,2,3,4,6,7,8-HpCDD

1,2,3,4,6,7,8,9-OCDD

2,3,7,8-TCDF

1,2,3,7,8-PeCDF

2,3,4,7,8-PeCDF

1,2,3,4,7,8-HxCDF

1,2,3,6,7,8-HxCDF

Client ID: LCSD for batch 46587

46590

Batch ID: Run Date: 04/15/2021 23:09 Method: Analyst: MJC

EPA Method 1613B

SW846 3520C

180

988

970

979

1010

959

1900

193

1010

997

1010

1020

Prep Basis: As Received

Data File: b14apr21a_4-2

Prep Method:

Dilution:

EDL

2.04

3.88

12.5

11.4

12.0

10.4

32.0

2.52

4.98

4.28

8.74

8.74

Units

pg/L

HRP763 Instrument: 1

PQL

10.0

50.0

50.0

50.0

50.0

50.0

100

10.0

50.0

50.0

50.0

50.0

46587 Prep Batch: **Prep Date:** 14-APR-21

CAS No.

1746-01-6

40321-76-4

39227-28-6

57653-85-7

19408-74-3

35822-46-9

3268-87-9

51207-31-9

57117-41-6

57117-31-4

70648-26-9

57117-44-9

1000 mL **Prep Aliquot: Parmname** Qual Result

60851-34-5	2,3,4,6,7,8-HxCDF			1010		pg/L	8.12	50.0
72918-21-9	1,2,3,7,8,9-HxCDF			1020		pg/L	13.0	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF			992		pg/L	8.94	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF			997		pg/L	13.7	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF			1980		pg/L	20.6	100
Surrogate/T	racer recovery	Qual	Result	Nominal	Units	Recovery%	Accepta	ble Limits
13C-2,3,7,8-TCDD			1880	2000	pg/L	93.9	(20%	-175%)
13C-1,2,3,7,8-	PeCDD		1740	2000	pg/L	87.2	(21%-	-227%)
13C-1,2,3,4,7,	8-HxCDD		1430	2000	pg/L	71.7	(21%-	-193%)
13C-1,2,3,6,7,8-HxCDD			1610	2000	pg/L	80.4	(25%	-163%)
13C-1,2,3,4,6,	7,8-HpCDD		1490	2000	pg/L	74.6	(22%	-166%)
13C-OCDD			2490	4000	pg/L	62.2	(13%-	-199%)
13C-2,3,7,8-TCDF			1500	2000	pg/L	75.2	(22%-	-152%)
13C-1,2,3,7,8-	PeCDF		1650	2000	pg/L	82.6	(21%-	-192%)
13C-2,3,4,7,8-	PeCDF		1730	2000	pg/L	86.5	(13%-	-328%)
13C-1,2,3,4,7,	8-HxCDF		1430	2000	pg/L	71.7	(19%-	-202%)
13C-1,2,3,6,7,	8-HxCDF		1590	2000	pg/L	79.6	(21%-	-159%)
13C-2,3,4,6,7,	8-HxCDF		1560	2000	pg/L	78.2	(22%	-176%)
13C-1,2,3,7,8,	9-HxCDF		1550	2000	pg/L	77.7	(17%-	-205%)
13C-1,2,3,4,6,	7,8-HpCDF		1430	2000	pg/L	71.7	(21%-	-158%)

1470

219

pg/L

pg/L

73.5

110

(20%-186%)

(31%-191%)

2000

200

Comments:

13C-1,2,3,4,7,8,9-HpCDF

37Cl-2,3,7,8-TCDD

Analyte was analyzed for, but not detected above the specified detection limit.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Monday, May 24, 2021 Kyle Haggart GeoDesign, Inc. 9450 SW Commerce Circle Wilsonville, OR 97070

RE: A1D1005 - Former Automatic Vending Co. - BCSAmerica-1-02

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A1D1005, which was received by the laboratory on 4/24/2021 at 9:49:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1 5.3 degC Cooler #3 4.1 degC Cooler #2 3.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.





Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevenberg

Page 1 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION								
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received				
SW-1(042421)	A1D1005-01	Water	04/24/21 05:45	04/24/21 09:49				
SW-2(042421)	A1D1005-02	Water	04/24/21 06:15	04/24/21 09:49				
DUP(042421)	A1D1005-03	Water	04/24/21 05:50	04/24/21 09:49				
SW-1-TB(042421)	A1D1005-04	Water	04/24/21 00:00	04/24/21 09:49				
SW-2-TB(042421)	A1D1005-05	Water	04/24/21 00:00	04/24/21 09:49				
DUP-TB(042421)	A1D1005-06	Water	04/24/21 00:00	04/24/21 09:49				

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx										
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes		
SW-1(042421) (A1D1005-01RE1)				Matrix: Wate	r	Batch:	1041169			
Diesel	1.01	0.0980	0.196	mg/L	1	05/03/21 07:52	NWTPH-Dx	F-24		
Oil	2.91	0.196	0.392	mg/L	1	05/03/21 07:52	NWTPH-Dx	F-24		
Surrogate: o-Terphenyl (Surr)		Reco	very: 83 %	Limits: 50-150 %	1	05/03/21 07:52	NWTPH-Dx			
SW-2(042421) (A1D1005-02RE1)				Matrix: Wate	r	Batch:	1041169			
Diesel	3.46	0.0962	0.192	mg/L	1	05/03/21 08:14	NWTPH-Dx	F-11		
Oil	ND	0.192	0.385	mg/L	1	05/03/21 08:14	NWTPH-Dx			
Surrogate: o-Terphenyl (Surr)		Reco	very: 90 %	Limits: 50-150 %	1	05/03/21 08:14	NWTPH-Dx			
DUP(042421) (A1D1005-03RE1)				Matrix: Wate	r	Batch:	1041169			
Diesel	0.874	0.0962	0.192	mg/L	1	05/03/21 08:58	NWTPH-Dx	F-24		
Oil	2.71	0.192	0.385	mg/L	1	05/03/21 08:58	NWTPH-Dx	F-24		
Surrogate: o-Terphenyl (Surr)		Reco	very: 96 %	Limits: 50-150 %	1	05/03/21 08:58	NWTPH-Dx			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons (Benzene tl	hrough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(042421) (A1D1005-01)				Matrix: Wate	er	Batch	: 1041086	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	04/29/21 20:21	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 96%	Limits: 50-150 %	5 I	04/29/21 20:21	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			97 %	50-150 %	1	04/29/21 20:21	NWTPH-Gx (MS)	
SW-2(042421) (A1D1005-02RE1)				Matrix: Wate	er	Batch	: 1041139	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	04/30/21 15:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 100 %	Limits: 50-150 %	5 1	04/30/21 15:58	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150 %	1	04/30/21 15:58	NWTPH-Gx (MS)	
DUP(042421) (A1D1005-03RE1)				Matrix: Wate	er	Batch	: 1041139	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	04/30/21 16:25	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 98 %	Limits: 50-150 %	5 1	04/30/21 16:25	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150 %	I	04/30/21 16:25	NWTPH-Gx (MS)	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
W-1(042421) (A1D1005-01)				Matrix: Wa	ater	Batch: 1041086		
Acetone	87.7	10.0	20.0	ug/L	1	04/29/21 20:21	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	04/29/21 20:21	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	04/29/21 20:21	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	04/29/21 20:21	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	04/29/21 20:21	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	04/29/21 20:21	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	04/29/21 20:21	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	04/29/21 20:21	EPA 8260D	ESTa
Chloromethane	ND	2.50	5.00	ug/L	1	04/29/21 20:21	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/29/21 20:21	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/29/21 20:21	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/29/21 20:21	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	EST
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	04/29/21 20:21	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	04/29/21 20:21	EPA 8260D	
Sopropylbenzene	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	04/29/21 20:21	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	04/29/21 20:21	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	04/29/21 20:21	EPA 8260D	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D										
	Sample	Detection	Reporting			Date				
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes		
SW-1(042421) (A1D1005-01)				Matrix: Wate	r	Batch:	1041086			
Naphthalene	ND	2.00	4.00	ug/L	1	04/29/21 20:21	EPA 8260D			
n-Propylbenzene	ND	0.250	0.500	ug/L	1	04/29/21 20:21	EPA 8260D			
Styrene	ND	1.00	2.00	ug/L	1	04/29/21 20:21	EPA 8260D			
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	04/29/21 20:21	EPA 8260D			
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/29/21 20:21	EPA 8260D			
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/29/21 20:21	EPA 8260D			
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	04/29/21 20:21	EPA 8260D			
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	04/29/21 20:21	EPA 8260D			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery.	101 %	Limits: 80-120 %	1	04/29/21 20:21	EPA 8260D			
Toluene-d8 (Surr)			97 %	80-120 %	1	04/29/21 20:21	EPA 8260D			
4-Bromofluorobenzene (Surr)			101 %	80-120 %	1	04/29/21 20:21	EPA 8260D			
SW-2(042421) (A1D1005-02RE1)				Matrix: Wate	r	Batch:	1041139			
Acetone	ND	20.0	20.0	ug/L	1	04/30/21 15:58	EPA 8260D			
Acrylonitrile	ND	1.00	2.00	ug/L	1	04/30/21 15:58	EPA 8260D			
Bromobenzene	ND	0.250	0.500	ug/L	1	04/30/21 15:58	EPA 8260D			
Bromochloromethane	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D			
Bromodichloromethane	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D			
Bromoform	ND	1.00	2.00	ug/L	1	04/30/21 15:58	EPA 8260D			
Bromomethane	ND	5.00	5.00	ug/L	1	04/30/21 15:58	EPA 8260D			
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	04/30/21 15:58	EPA 8260D			
n-Butylbenzene	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D			
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D			
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D			
Carbon disulfide	ND	5.00	10.0	ug/L	1	04/30/21 15:58	EPA 8260D			
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D			
Chlorobenzene	ND	0.250	0.500	ug/L	1	04/30/21 15:58	EPA 8260D			
Chloroethane	ND	5.00	5.00	ug/L	1	04/30/21 15:58	EPA 8260D			
Chloromethane	ND	2.50	5.00	ug/L	1	04/30/21 15:58	EPA 8260D			
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D			
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D			
Dibromochloromethane	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D			
Dibromomethane	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D			
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/30/21 15:58	EPA 8260D			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

		Detection	-	nds by EPA 826		Date		
Analyte	Sample Result	Limit Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-2(042421) (A1D1005-02RE1)				Matrix: Wate	r	Batch:	1041139	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/30/21 15:58	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/30/21 15:58	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	04/30/21 15:58	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	04/30/21 15:58	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	04/30/21 15:58	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	04/30/21 15:58	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	04/30/21 15:58	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	04/30/21 15:58	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	04/30/21 15:58	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	04/30/21 15:58	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/30/21 15:58	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/30/21 15:58	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	04/30/21 15:58	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	04/30/21 15:58	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 113 %	Limits: 80-120 %	I	04/30/21 15:58	EPA 8260D	
Toluene-d8 (Surr)			100 %	80-120 %		04/30/21 15:58	EPA 8260D	
4-Bromofluorobenzene (Surr)			101 %	80-120 %	1	04/30/21 15:58	EPA 8260D	
DUP(042421) (A1D1005-03RE1)				Matrix: Wate	r	Batch:	1041139	
Acetone	89.4	10.0	20.0	ug/L	1	04/30/21 16:25	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	04/30/21 16:25	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Bromoform	ND	1.00	2.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	04/30/21 16:25	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	04/30/21 16:25	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

	V	olatile Organ	ic Compoun	nds by EPA 826	30D			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
DUP(042421) (A1D1005-03RE1)				Matrix: Wate	er	Batch:	1041139	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	04/30/21 16:25	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	04/30/21 16:25	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	04/30/21 16:25	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/30/21 16:25	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/30/21 16:25	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	04/30/21 16:25	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	04/30/21 16:25	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	04/30/21 16:25	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	04/30/21 16:25	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	04/30/21 16:25	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	04/30/21 16:25	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	04/30/21 16:25	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	04/30/21 16:25	EPA 8260D	
1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	04/30/21 16:25	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/30/21 16:25	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	04/30/21 16:25	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	04/30/21 16:25	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	04/30/21 16:25	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)			ery: 112 %	Limits: 80-120 %		04/30/21 16:25	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

	Volatile Organic Compounds by EPA 8260D									
Analyte	Sample Result	Detection Limit	Reporting Limit	Ur	nits	Dilution	Date Analyzed	Method Ref.	Notes	
DUP(042421) (A1D1005-03RE1)				Matr	ix: Wate	er	Batch:	1041139		
Surrogate: Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr)		Recover	ry: 102 % 101 %		80-120 % 80-120 %		04/30/21 16:25 04/30/21 16:25	EPA 8260D EPA 8260D		

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

			•	s by EPA 8260D					
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Note	
SW-1(042421) (A1D1005-01)	_ coult			Matrix: Wate		•	1041149		
Benzene	ND	0.0500	0.100	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
Toluene	ND	0.0500	0.100	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
o-Xylene	ND	0.0500	0.100	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
Chloroform	ND	0.0500	0.100	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/30/21 13:49	EPA 8260D SIM		
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	ery: 103 %	Limits: 80-120 %	5 1	04/30/21 13:49	EPA 8260D SIM		
Toluene-d8 (Surr)			96 %	80-120 %	5 1	04/30/21 13:49	EPA 8260D SIM		
4-Bromofluorobenzene (Surr)			85 %	80-120 %	5 <i>1</i>	04/30/21 13:49	EPA 8260D SIM		
SW-2(042421) (A1D1005-02)		Matrix: W				rix: Water Batch: 1041149			
Benzene	ND	0.0500	0.100	ug/L	1	04/30/21 14:15	EPA 8260D SIM		
Toluene	ND	0.0500	0.100	ug/L	1	04/30/21 14:15	EPA 8260D SIM		
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 14:15	EPA 8260D SIM		
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/30/21 14:15	EPA 8260D SIM		

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevenberg

Page 10 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM										
	Sample	Detection	Reporting			Date				
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes		
SW-2(042421) (A1D1005-02)				Matrix: Wate	r	Batch:	1041149			
o-Xylene	ND	0.0500	0.100	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
Chloroform	ND	0.0500	0.100	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/30/21 14:15	EPA 8260D SIM			
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery.	102 %	Limits: 80-120 %	1	04/30/21 14:15	EPA 8260D SIM			
Toluene-d8 (Surr)			94 %	80-120 %	1	04/30/21 14:15	EPA 8260D SIM			
4-Bromofluorobenzene (Surr)			85 %	80-120 %	1	04/30/21 14:15	EPA 8260D SIM			
DUP(042421) (A1D1005-03)				Matrix: Wate	r	Batch:	1041149			
Benzene	ND	0.0500	0.100	ug/L	1	04/30/21 14:42	EPA 8260D SIM			
Toluene	ND	0.0500	0.100	ug/L	1	04/30/21 14:42	EPA 8260D SIM			
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 14:42	EPA 8260D SIM			
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/30/21 14:42	EPA 8260D SIM			
o-Xylene	ND	0.0500	0.100	ug/L	1	04/30/21 14:42	EPA 8260D SIM			
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 14:42	EPA 8260D SIM			
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 14:42	EPA 8260D SIM			
Chloroform	ND	0.0500	0.100	ug/L	1	04/30/21 14:42	EPA 8260D SIM			

Apex Laboratories

Philip Newsberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

	Vol	atile Organic	Compound	s by EPA 82600	SIM			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DUP(042421) (A1D1005-03)				Matrix: Wate	Matrix: Water		Batch: 1041149	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/30/21 14:42	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 103 %	Limits: 80-120 %	5 I	04/30/21 14:42	EPA 8260D SIM	
Toluene-d8 (Surr)			95 %	80-120 %	5 1	04/30/21 14:42	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			84 %	80-120 %	1	04/30/21 14:42	EPA 8260D SIM	
SW-1-TB(042421) (A1D1005-04)				Matrix: Wate	er	Batch:	1041149	V-01
Benzene	ND	0.0500	0.100	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
o-Xylene	ND	0.0500	0.100	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
W-1-TB(042421) (A1D1005-04)				Matrix: Wate	Matrix: Water		1041149	V-01
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/30/21 12:28	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 103 %	Limits: 80-120 %	1	04/30/21 12:28	EPA 8260D SIM	
Toluene-d8 (Surr)			95 %	80-120 %	1	04/30/21 12:28	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			84 %	80-120 %	1	04/30/21 12:28	EPA 8260D SIM	
6W-2-TB(042421) (A1D1005-05)				Matrix: Wate	er	Batch:	1041149	V-01
Benzene	ND	0.0500	0.100	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
o-Xylene	ND	0.0500	0.100	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM	

Apex Laboratories

Philip Newberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

	Volatile Organic Compounds by EPA 8260D SIM											
	Sample	Detection	Reporting			Date						
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes				
SW-2-TB(042421) (A1D1005-05)				Matrix: Water		Batch: 1041149		V-01				
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM					
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM					
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM					
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM					
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM					
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM					
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM					
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/30/21 12:55	EPA 8260D SIM					
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/30/21 12:55	EPA 8260D SIM					
Surrogate: 1,4-Difluorobenzene (Surr)		Recover	y: 103 %	Limits: 80-120 %	1	04/30/21 12:55	EPA 8260D SIM					
Toluene-d8 (Surr)			95 %	80-120 %	1	04/30/21 12:55	EPA 8260D SIM					
4-Bromofluorobenzene (Surr)			84 %	80-120 %	1	04/30/21 12:55	EPA 8260D SIM					
DUP-TB(042421) (A1D1005-06)				Matrix: Wate	er	Batch:	1041149	V-01				
Benzene	ND	0.0500	0.100	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
Toluene	ND	0.0500	0.100	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
Ethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
m,p-Xylene	ND	0.100	0.200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
o-Xylene	ND	0.0500	0.100	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
Chloroform	ND	0.0500	0.100	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

	Vola	atile Organic	Compound	s by EPA 8260I	DSIM			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
DUP-TB(042421) (A1D1005-06)				Matrix: Wate	er	Batch:	1041149	V-01
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	04/30/21 13:22	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	04/30/21 13:22	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 103 %	Limits: 80-120 %	6 I	04/30/21 13:22	EPA 8260D SIM	
Toluene-d8 (Surr)			95 %	80-120 %	6 I	04/30/21 13:22	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			84 %	80-120 %	6 I	04/30/21 13:22	EPA 8260D SIM	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

	l	Polychlorinated	Bipheny	ls by EPA 8082	2A			
Analyte	Sample Result	Detection I Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Note
SW-1(042421) (A1D1005-01)				Matrix: Wate	Matrix: Water		Batch: 1050125	
Aroclor 1016	ND	0.0189	0.0377	ug/L	1	05/05/21 20:05	EPA 8082A	
Aroclor 1221	ND	0.0189	0.0377	ug/L	1	05/05/21 20:05	EPA 8082A	
Aroclor 1232	ND	0.0189	0.0377	ug/L	1	05/05/21 20:05	EPA 8082A	
Aroclor 1242	ND	0.0189	0.0377	ug/L	1	05/05/21 20:05	EPA 8082A	
Aroclor 1248	ND	0.0189	0.0377	ug/L	1	05/05/21 20:05	EPA 8082A	
Aroclor 1254	ND	0.0189	0.0377	ug/L	1	05/05/21 20:05	EPA 8082A	
Aroclor 1260	ND	0.0189	0.0377	ug/L	1	05/05/21 20:05	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery.	50 %	Limits: 40-135 %	5 1	05/05/21 20:05	EPA 8082A	
W-2(042421) (A1D1005-02)				Matrix: Wate	er	Batch:	1050125	C-07
Aroclor 1016	ND	0.0189	0.0377	ug/L	1	05/05/21 20:23	EPA 8082A	
Aroclor 1221	ND	0.0189	0.0377	ug/L	1	05/05/21 20:23	EPA 8082A	
Aroclor 1232	ND	0.0189	0.0377	ug/L	1	05/05/21 20:23	EPA 8082A	
Aroclor 1242	ND	0.0189	0.0377	ug/L	1	05/05/21 20:23	EPA 8082A	
Aroclor 1248	ND	0.0189	0.0377	ug/L	1	05/05/21 20:23	EPA 8082A	
Aroclor 1254	ND	0.0189	0.0377	ug/L	1	05/05/21 20:23	EPA 8082A	
Aroclor 1260	ND	0.0189	0.0377	ug/L	1	05/05/21 20:23	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery.	57 %	Limits: 40-135 %	5 1	05/05/21 20:23	EPA 8082A	
UP(042421) (A1D1005-03)				Matrix: Wate	er	Batch:	1050125	C-07
Aroclor 1016	ND	0.0189	0.0377	ug/L	1	05/05/21 20:40	EPA 8082A	
Aroclor 1221	ND	0.0189	0.0377	ug/L	1	05/05/21 20:40	EPA 8082A	
Aroclor 1232	ND	0.0189	0.0377	ug/L	1	05/05/21 20:40	EPA 8082A	
Aroclor 1242	ND	0.0189	0.0377	ug/L	1	05/05/21 20:40	EPA 8082A	
Aroclor 1248	ND	0.0189	0.0377	ug/L	1	05/05/21 20:40	EPA 8082A	
Aroclor 1254	ND	0.0189	0.0377	ug/L	1	05/05/21 20:40	EPA 8082A	
Aroclor 1260	ND	0.0189	0.0377	ug/L	1	05/05/21 20:40	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery.	44 %	Limits: 40-135 %	5 1	05/05/21 20:40	EPA 8082A	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 16 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
W-1(042421) (A1D1005-01)				Matrix: Wate	r	Batch:	1041137	R-04
Acenaphthene	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Acenaphthylene	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Anthracene	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Benz(a)anthracene	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Benzo(a)pyrene	ND	0.566	1.13	ug/L	40	04/30/21 14:44	EPA 8270E	
Benzo(b)fluoranthene	ND	0.566	1.13	ug/L	40	04/30/21 14:44	EPA 8270E	
Benzo(k)fluoranthene	ND	0.566	1.13	ug/L	40	04/30/21 14:44	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Chrysene	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Fluoranthene	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Fluorene	ND	0.755	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
1-Methylnaphthalene	ND	0.755	1.51	ug/L	40	04/30/21 14:44	EPA 8270E	
2-Methylnaphthalene	ND	0.755	1.51	ug/L	40	04/30/21 14:44	EPA 8270E	
Naphthalene	ND	0.755	1.51	ug/L	40	04/30/21 14:44	EPA 8270E	
Phenanthrene	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Pyrene	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Carbazole	ND	0.566	1.13	ug/L	40	04/30/21 14:44	EPA 8270E	
Dibenzofuran	ND	0.377	0.755	ug/L	40	04/30/21 14:44	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	7.55	15.1	ug/L	40	04/30/21 14:44	EPA 8270E	
Butyl benzyl phthalate	ND	7.55	15.1	ug/L	40	04/30/21 14:44	EPA 8270E	
Diethylphthalate	ND	7.55	15.1	ug/L	40	04/30/21 14:44	EPA 8270E	
Dimethylphthalate	ND	7.55	15.1	ug/L	40	04/30/21 14:44	EPA 8270E	
Di-n-butylphthalate	ND	7.55	15.1	ug/L	40	04/30/21 14:44	EPA 8270E	
Di-n-octyl phthalate	ND	7.55	15.1	ug/L	40	04/30/21 14:44	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recov	very: 53 %	Limits: 44-120 %	5 40	04/30/21 14:44	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			58 %	44-120 %		04/30/21 14:44	EPA 8270E	S-05
Phenol-d6 (Surr)			17 %	10-133 %		04/30/21 14:44	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			29 %	50-134 %		04/30/21 14:44	EPA 8270E	S-05
2-Fluorophenol (Surr)			29 %	19-120 %		04/30/21 14:44	EPA 8270E	S-05
2,4,6-Tribromophenol (Surr)			107 %	43-140 %	5 40	04/30/21 14:44	EPA 8270E	S-05
W-2(042421) (A1D1005-02RE1)				Matrix: Wate	۱ <u>r</u>	Batch:	1041137	R-04

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

				ounds by EPA 8		D.		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-2(042421) (A1D1005-02RE1)				Matrix: Wate	er	Batch:	1041137	R-04
Acenaphthene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Acenaphthylene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Anthracene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Benz(a)anthracene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Benzo(a)pyrene	ND	0.291	0.583	ug/L	20	04/30/21 17:05	EPA 8270E	
Benzo(b)fluoranthene	ND	0.291	0.583	ug/L	20	04/30/21 17:05	EPA 8270E	
Benzo(k)fluoranthene	ND	0.291	0.583	ug/L	20	04/30/21 17:05	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Chrysene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Fluoranthene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Fluorene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
1-Methylnaphthalene	ND	0.388	0.777	ug/L	20	04/30/21 17:05	EPA 8270E	
2-Methylnaphthalene	ND	0.388	0.777	ug/L	20	04/30/21 17:05	EPA 8270E	
Naphthalene	ND	0.388	0.777	ug/L	20	04/30/21 17:05	EPA 8270E	
Phenanthrene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Pyrene	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Carbazole	ND	0.291	0.583	ug/L	20	04/30/21 17:05	EPA 8270E	
Dibenzofuran	ND	0.194	0.388	ug/L	20	04/30/21 17:05	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	3.88	7.77	ug/L	20	04/30/21 17:05	EPA 8270E	
Butyl benzyl phthalate	ND	3.88	7.77	ug/L	20	04/30/21 17:05	EPA 8270E	
Diethylphthalate	ND	3.88	7.77	ug/L	20	04/30/21 17:05	EPA 8270E	
Dimethylphthalate	ND	3.88	7.77	ug/L	20	04/30/21 17:05	EPA 8270E	
Di-n-butylphthalate	ND	3.88	7.77	ug/L	20	04/30/21 17:05	EPA 8270E	
Di-n-octyl phthalate	ND	3.88	7.77	ug/L	20	04/30/21 17:05	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery	: 76 %	Limits: 44-120 %	20	04/30/21 17:05	EPA 8270E	
2-Fluorobiphenyl (Surr)			76 %	44-120 %		04/30/21 17:05	EPA 8270E	
Phenol-d6 (Surr)			22 %	10-133 %		04/30/21 17:05	EPA 8270E	
p-Terphenyl-d14 (Surr)			33 %	50-134 %		04/30/21 17:05	EPA 8270E	S-06
2-Fluorophenol (Surr) 2,4,6-Tribromophenol (Surr)			37 % 119 %	19-120 % 43-140 %		04/30/21 17:05 04/30/21 17:05	EPA 8270E EPA 8270E	

Apex Laboratories

DUP(042421) (A1D1005-03RE1)

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Batch: 1041177

Matrix: Water

R-04



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

	Sen	nivolatile Org	anic Comp	ounds by EPA 8	270E			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DUP(042421) (A1D1005-03RE1)				Matrix: Wate	r	Batch:	1041177	R-04
Acenaphthene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Acenaphthylene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Anthracene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Benz(a)anthracene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Benzo(a)pyrene	ND	0.583	1.17	ug/L	40	05/03/21 23:52	EPA 8270E	
Benzo(b)fluoranthene	ND	0.583	1.17	ug/L	40	05/03/21 23:52	EPA 8270E	
Benzo(k)fluoranthene	ND	0.583	1.17	ug/L	40	05/03/21 23:52	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Chrysene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Fluoranthene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Fluorene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
1-Methylnaphthalene	ND	0.777	1.55	ug/L	40	05/03/21 23:52	EPA 8270E	
2-Methylnaphthalene	ND	0.777	1.55	ug/L	40	05/03/21 23:52	EPA 8270E	
Naphthalene	ND	0.777	1.55	ug/L	40	05/03/21 23:52	EPA 8270E	
Phenanthrene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Pyrene	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Carbazole	ND	0.583	1.17	ug/L	40	05/03/21 23:52	EPA 8270E	
Dibenzofuran	ND	0.388	0.777	ug/L	40	05/03/21 23:52	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	7.77	15.5	ug/L	40	05/03/21 23:52	EPA 8270E	
Butyl benzyl phthalate	ND	7.77	15.5	ug/L	40	05/03/21 23:52	EPA 8270E	
Diethylphthalate	ND	7.77	15.5	ug/L	40	05/03/21 23:52	EPA 8270E	
Dimethylphthalate	ND	7.77	15.5	ug/L	40	05/03/21 23:52	EPA 8270E	
Di-n-butylphthalate	ND	7.77	15.5	ug/L	40	05/03/21 23:52	EPA 8270E	
Di-n-octyl phthalate	ND	7.77	15.5	ug/L	40	05/03/21 23:52	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Reco	very: 51 %	Limits: 44-120 %	40	05/03/21 23:52	EPA 8270E	S-05
2-Fluorobiphenyl (Surr)			54 %	44-120 %	40	05/03/21 23:52	EPA 8270E	S-05
Phenol-d6 (Surr)			26 %	10-133 %	40	05/03/21 23:52	EPA 8270E	S-05
p-Terphenyl-d14 (Surr)			31 %	50-134 %	40	05/03/21 23:52	EPA 8270E	S-05
2-Fluorophenol (Surr)			29 %	19-120 %	40	05/03/21 23:52	EPA 8270E	S-05
2,4,6-Tribromophenol (Surr)			86 %	43-140 %	40	05/03/21 23:52	EPA 8270E	S-05

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

		Total Meta	als by EPA 20	0.8 (ICPMS)			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(042421) (A1D1005-01)				Matrix: W	ater			
Batch: 1050197								
Arsenic	0.517	0.500	1.00	ug/L	1	05/06/21 19:08	EPA 200.8	J
Chromium	1.85	0.500	1.00	ug/L	1	05/06/21 19:08	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	05/06/21 19:08	EPA 200.8	
Zinc	140	2.00	4.00	ug/L	1	05/06/21 19:08	EPA 200.8	
SW-2(042421) (A1D1005-02)				Matrix: W	ater			
Batch: 1050197								
Arsenic	1.14	0.500	1.00	ug/L	1	05/06/21 19:12	EPA 200.8	
Cadmium	0.280	0.100	0.200	ug/L	1	05/06/21 19:12	EPA 200.8	
Chromium	2.64	0.500	1.00	ug/L	1	05/06/21 19:12	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	05/06/21 19:12	EPA 200.8	
Zinc	703	2.00	4.00	ug/L	1	05/06/21 19:12	EPA 200.8	
DUP(042421) (A1D1005-03)				Matrix: W	ater			
Batch: 1050197								
Chromium	1.70	0.500	1.00	ug/L	1	05/06/21 19:17	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	05/06/21 19:17	EPA 200.8	
Zinc	135	2.00	4.00	ug/L	1	05/06/21 19:17	EPA 200.8	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

	Tot	al Metals by	EPA 200.8 (IC	PMS) - Lov	v Level			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(042421) (A1D1005-01)				Matrix: W	ater			
Batch: 1050526 Cadmium	0.0713	0.0250	0.0500	ug/L	1	05/19/21 16:27	EPA 200.8-LL	
DUP(042421) (A1D1005-03)				Matrix: W	ater			
Batch: 1050526								
Arsenic	0.461	0.0500	0.100	ug/L	1	05/19/21 16:34	EPA 200.8-LL	
Cadmium	0.0606	0.0250	0.0500	ug/L	1	05/19/21 16:34	EPA 200.8-LL	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

ANALYTICAL SAMPLE RESULTS

		Solid and	Moisture Det	ermination	S			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-1(042421) (A1D1005-01)				Matrix: W	ater			
Batch: 1040974								
Total Suspended Solids	13.0	5.00	5.00	mg/L	1	04/29/21 09:21	SM 2540 D	
SW-2(042421) (A1D1005-02)				Matrix: W	ater			
Batch: 1040974								
Total Suspended Solids	8.00	5.00	5.00	mg/L	1	04/29/21 09:21	SM 2540 D	
DUP(042421) (A1D1005-03)				Matrix: W	ater			
Batch: 1040974								
Total Suspended Solids	9.00	5.00	5.00	mg/L	1	04/29/21 09:21	SM 2540 D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 22 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

		Di	esel and/o	r Oil Hyd	rocarbon	s by NWT	PH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041169 - EPA 3510C (I	Fuels/Acid	Ext.)					Wat	er				
Blank (1041169-BLK1)			Prepared	: 04/30/21	13:01 Anal	lyzed: 05/01/	/21 03:27					
NWTPH-Dx												
Diesel	ND	0.0909	0.182	mg/L	1							
Oil	ND	0.182	0.364	mg/L	1							
Surr: o-Terphenyl (Surr)		Reco	very: 88 %	Limits: 50)-150 %	Dilı	ution: 1x					
LCS (1041169-BS1)			Prepared	: 04/30/21	13:01 Anal	yzed: 05/01/	/21 03:49					
NWTPH-Dx												
Diesel	0.960	0.100	0.200	mg/L	1	1.25		77	59-115%			
Surr: o-Terphenyl (Surr)		Reco	very: 98 %	Limits: 50)-150 %	Dilı	ution: 1x					
LCS Dup (1041169-BSD1)			Prepared	: 04/30/21	13:01 Anal	lyzed: 05/01/	/21 04:10					Q-19
NWTPH-Dx												
Diesel	0.994	0.100	0.200	mg/L	1	1.25		80	59-115%	3	30%	
Surr: o-Terphenyl (Surr)		Reco	very: 96 %	Limits: 50)-150 %	Dilı	ition: 1x					

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	lydrocarbo	ons (Benz	ene thro	ugh Naph	thalene) l	by NWTF	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041086 - EPA 5030B							Wat	er				
Blank (1041086-BLK1)			Prepared	d: 04/29/21	08:00 Ana	yzed: 04/29	/21 09:40					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 96 %	Limits: 50	0-150 %	Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			101 %	50	0-150 %		"					
LCS (1041086-BS2)			Prepared	d: 04/29/21	08:00 Ana	lyzed: 04/29	/21 09:11					
NWTPH-Gx (MS)												
Gasoline Range Organics	0.444	0.0500	0.100	mg/L	1	0.500		89	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 97 %	Limits: 50	0-150 %	Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			94 %	50	0-150 %		"					
Duplicate (1041086-DUP1)			Prepared	d: 04/29/21	09:00 Ana	yzed: 04/29	/21 12:06					
QC Source Sample: Non-SDG (A1	D1137-01)											
Gasoline Range Organics	1.02	0.0500	0.100	mg/L	1		0.752			30	30%	
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 111 %	Limits: 50	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			98 %	50	0-150 %		"					
Duplicate (1041086-DUP2)			Prepared	d: 04/29/21	09:00 Ana	yzed: 04/29	/21 21:48					T-(
QC Source Sample: SW-2(042421)	(A1D1005-	-02)										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 95 %	Limits: 50	0-150 %	Dilı	ution: 1x	<u> </u>	<u> </u>			
1,4-Difluorobenzene (Sur)			100 %	50	0-150 %		"					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	ydrocarbo	ns (Ben	zene thro	ugh Naph	thalene) l	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041139 - EPA 5030B							Wat	er				
Blank (1041139-BLK1)			Prepared	1: 04/30/21	08:00 Ana	lyzed: 04/30	/21 10:06					
NWTPH-Gx (MS) Gasoline Range Organics	ND	0.0500	0.100	mg/L	, 1							
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recove	ery: 100 % 108 %	Limits: 5	0-150 % 0-150 %	Dilı	ution: 1x					
LCS (1041139-BS2)			Prepared	1: 04/30/21	08:00 Ana	lyzed: 04/30	/21 09:39					
NWTPH-Gx (MS) Gasoline Range Organics	0.550	0.0500	0.100	mg/L	. 1	0.500		110	80-120%			
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recove	ery: 108 % 103 %	Limits: 5	0-150 % 0-150 %	Dilı	ution: 1x					
Duplicate (1041139-DUP1)			Prepared	1: 04/30/21	08:00 Ana	lyzed: 04/30	/21 12:49					
QC Source Sample: Non-SDG (A1	D1204-01)											
Gasoline Range Organics	0.301	0.0500	0.100	mg/L	. 1		0.290			4	30%	
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recove	ery: 108 % 108 %	Limits: 5	0-150 % 0-150 %	Dilı	ution: Ix					

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Dilution Analyte Result Limit Units % REC RPD Limit Amount Result Limits Limit Notes Batch 1041086 - EPA 5030B Water Blank (1041086-BLK1) Prepared: 04/29/21 08:00 Analyzed: 04/29/21 09:40 EPA 8260D ND 10.0 20.0 ug/L Acetone ND 2.00 Acrylonitrile 1.00 ug/L 1 Benzene ND 0.100 0.200 ug/L 1 Bromobenzene ND 0.250 0.500 ug/L 1 Bromochloromethane ND 0.500 1.00 ug/L 1 ND Bromodichloromethane 0.500 1.00 ug/L 1 Bromoform ND 0.500 1.00 ug/L 1 5.00 Bromomethane ND 5.00 ug/L 1 2-Butanone (MEK) ND 5.00 10.0 ug/L 1 n-Butylbenzene ND 0.500 1.00 1 ug/L sec-Butylbenzene ND 0.500 1.00 ug/L 1 ND 0.500 tert-Butylbenzene 1.00 1 ug/L Carbon disulfide ND 5.00 10.0 ug/L 1 Carbon tetrachloride ND 0.500 ug/L 1.00 1 Chlorobenzene ND 0.250 0.500 ug/L 1 Chloroethane ND 5.00 5.00 ug/L 1 ESTa ------Chloroform ND 0.500 1.00 ug/L 1 ND 2.50 5.00 Chloromethane 1 ug/L 2-Chlorotoluene ND 0.500 1.00 ug/L 1 4-Chlorotoluene ND 0.500 1.00 ug/L 1 Dibromochloromethane ND 0.500 1.00 ug/L 1 1,2-Dibromo-3-chloropropane ND 2.50 5.00 ug/L 1 1,2-Dibromoethane (EDB) ND 0.250 0.500 ug/L 1 ug/L Dibromomethane ND 0.500 1.00 1 0.250 1,2-Dichlorobenzene ND 0.500 ug/L 1 ug/L 1,3-Dichlorobenzene ND 0.250 0.500 1 1,4-Dichlorobenzene ND 0.250 0.500 ug/L 1 EST Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 ---1,1-Dichloroethane ND 0.200 0.400ug/L 1 1,2-Dichloroethane (EDC) ND 0.200 0.400ug/L 1 1,1-Dichloroethene ND 0.200 0.400 ug/L 1 cis-1,2-Dichloroethene ND 0.200 0.400 ug/L 1 trans-1,2-Dichloroethene 0.200 0.400 ND ug/L 1

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 26 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041086 - EPA 5030B							Wate	er				
Blank (1041086-BLK1)			Prepared	: 04/29/21	08:00 Anal	yzed: 04/29/	/21 09:40					
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1							
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1							
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1							
,1-Dichloropropene	ND	0.500	1.00	ug/L	1							
is-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
rans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
Ethylbenzene	ND	0.250	0.500	ug/L	1							
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1							
2-Hexanone	ND	5.00	10.0	ug/L	1							
sopropylbenzene	ND	0.500	1.00	ug/L	1							
1-Isopropyltoluene	ND	0.500	1.00	ug/L	1							
Methylene chloride	ND	5.00	10.0	ug/L	1							
-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1							
Naphthalene	ND	2.00	4.00	ug/L	1							
n-Propylbenzene	ND	0.250	0.500	ug/L	1							
Styrene	ND	1.00	2.00	ug/L	1							
,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1							
,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1							
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1							
Toluene	ND	0.500	1.00	ug/L	1							
,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1							
,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1							
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1							
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1							
,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1							
,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
Vinyl chloride	ND	0.200	0.400	ug/L	1							
n,p-Xylene	ND	0.500	1.00	ug/L	1							
o-Xylene	ND	0.250	0.500	ug/L	1							
urr: 1,4-Difluorobenzene (Surr)		Recov	verv: 104 %	Limits: 80	0-120 %	Dilu	ıtion: 1x					

Surr: 1,4-Difluorobenzene (Surr) Recovery: 104 % Limits: 80-120 % Dilution: 1.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 27 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041086 - EPA 5030B							Wat	er				
Blank (1041086-BLK1)			Prepared	d: 04/29/21	08:00 Ana	lyzed: 04/29	/21 09:40					
Surr: Toluene-d8 (Surr)		Reco	overy: 97 %	Limits: 80	0-120 %	Dilt	ution: 1x					
4-Bromofluorobenzene (Surr)			102 %	80	0-120 %		"					
LCS (1041086-BS1)			Prepared	d: 04/29/21	08:00 Ana	lyzed: 04/29	/21 08:41					
EPA 8260D												
Acetone	34.5	10.0	20.0	ug/L	1	40.0		86	80-120%			
Acrylonitrile	18.0	1.00	2.00	ug/L	1	20.0		90	80-120%			
Benzene	19.4	0.100	0.200	ug/L	1	20.0		97	80-120%			
Bromobenzene	19.2	0.250	0.500	ug/L	1	20.0		96	80-120%			
Bromochloromethane	18.8	0.500	1.00	ug/L	1	20.0		94	80-120%			
Bromodichloromethane	20.1	0.500	1.00	ug/L	1	20.0		101	80-120%			
Bromoform	23.4	0.500	1.00	ug/L	1	20.0		117	80-120%			
Bromomethane	13.8	5.00	5.00	ug/L	1	20.0		69	80-120%			Q-5
2-Butanone (MEK)	37.5	5.00	10.0	ug/L	1	40.0		94	80-120%			
n-Butylbenzene	18.2	0.500	1.00	ug/L	1	20.0		91	80-120%			
sec-Butylbenzene	19.6	0.500	1.00	ug/L	1	20.0		98	80-120%			
tert-Butylbenzene	19.1	0.500	1.00	ug/L	1	20.0		96	80-120%			
Carbon disulfide	16.2	5.00	10.0	ug/L	1	20.0		81	80-120%			
Carbon tetrachloride	22.6	0.500	1.00	ug/L	1	20.0		113	80-120%			
Chlorobenzene	19.6	0.250	0.500	ug/L	1	20.0		98	80-120%			
Chloroethane	15.9	5.00	5.00	ug/L	1	20.0		79	80-120%			ESTa, Q-5
Chloroform	19.9	0.500	1.00	ug/L	1	20.0		100	80-120%			
Chloromethane	20.8	2.50	5.00	ug/L	1	20.0		104	80-120%			
2-Chlorotoluene	21.9	0.500	1.00	ug/L	1	20.0		110	80-120%			
4-Chlorotoluene	19.6	0.500	1.00	ug/L	1	20.0		98	80-120%			
Dibromochloromethane	21.5	0.500	1.00	ug/L	1	20.0		108	80-120%			
1,2-Dibromo-3-chloropropane	19.9	2.50	5.00	ug/L	1	20.0		99	80-120%			
1,2-Dibromoethane (EDB)	21.5	0.250	0.500	ug/L	1	20.0		108	80-120%			
Dibromomethane	20.2	0.500	1.00	ug/L	1	20.0		101	80-120%			
1,2-Dichlorobenzene	20.4	0.250	0.500	ug/L	1	20.0		102	80-120%			
1,3-Dichlorobenzene	21.1	0.250	0.500	ug/L	1	20.0		105	80-120%			
1,4-Dichlorobenzene	18.6	0.250	0.500	ug/L	1	20.0		93	80-120%			
Dichlorodifluoromethane	18.0	0.500	1.00	ug/L	1	20.0		90	80-120%			ES
1,1-Dichloroethane	17.7	0.200	0.400	ug/L	1	20.0		88	80-120%			

Apex Laboratories

Philip Newsberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041086 - EPA 5030B							Wat	er				
LCS (1041086-BS1)			Prepared	: 04/29/21	08:00 Anal	yzed: 04/29/	21 08:41					
1,2-Dichloroethane (EDC)	19.2	0.200	0.400	ug/L	1	20.0		96	80-120%			
1,1-Dichloroethene	18.6	0.200	0.400	ug/L	1	20.0		93	80-120%			
cis-1,2-Dichloroethene	18.6	0.200	0.400	ug/L	1	20.0		93	80-120%			
rans-1,2-Dichloroethene	16.6	0.200	0.400	ug/L	1	20.0		83	80-120%			
,2-Dichloropropane	18.4	0.250	0.500	ug/L	1	20.0		92	80-120%			
,3-Dichloropropane	20.2	0.500	1.00	ug/L	1	20.0		101	80-120%			
2,2-Dichloropropane	21.6	0.500	1.00	ug/L	1	20.0		108	80-120%			
,1-Dichloropropene	21.0	0.500	1.00	ug/L	1	20.0		105	80-120%			
cis-1,3-Dichloropropene	18.9	0.500	1.00	ug/L	1	20.0		95	80-120%			
rans-1,3-Dichloropropene	20.0	0.500	1.00	ug/L	1	20.0		100	80-120%			
Ethylbenzene	22.2	0.250	0.500	ug/L	1	20.0		111	80-120%			
Hexachlorobutadiene	20.6	2.50	5.00	ug/L	1	20.0		103	80-120%			
-Hexanone	33.5	5.00	10.0	ug/L	1	40.0		84	80-120%			
sopropylbenzene	20.2	0.500	1.00	ug/L	1	20.0		101	80-120%			
-Isopropyltoluene	19.4	0.500	1.00	ug/L	1	20.0		97	80-120%			
Methylene chloride	19.9	5.00	10.0	ug/L	1	20.0		100	80-120%			
l-Methyl-2-pentanone (MiBK)	36.2	5.00	10.0	ug/L	1	40.0		91	80-120%			
Methyl tert-butyl ether (MTBE)	18.1	0.500	1.00	ug/L	1	20.0		90	80-120%			
Naphthalene	16.1	2.00	4.00	ug/L	1	20.0		80	80-120%			
n-Propylbenzene	20.4	0.250	0.500	ug/L	1	20.0		102	80-120%			
Styrene	20.5	1.00	2.00	ug/L	1	20.0		102	80-120%			
,1,1,2-Tetrachloroethane	22.0	0.200	0.400	ug/L	1	20.0		110	80-120%			
,1,2,2-Tetrachloroethane	18.4	0.250	0.500	ug/L	1	20.0		92	80-120%			
Tetrachloroethene (PCE)	21.0	0.200	0.400	ug/L	1	20.0		105	80-120%			
Toluene	18.7	0.500	1.00	ug/L	1	20.0		94	80-120%			
,2,3-Trichlorobenzene	20.0	1.00	2.00	ug/L	1	20.0		100	80-120%			
,2,4-Trichlorobenzene	18.1	1.00	2.00	ug/L	1	20.0		91	80-120%			
,1,1-Trichloroethane	21.2	0.200	0.400	ug/L	1	20.0		106	80-120%			
,1,2-Trichloroethane	20.8	0.250	0.500	ug/L	1	20.0		104	80-120%			
richloroethene (TCE)	19.2	0.200	0.400	ug/L	1	20.0		96	80-120%			
Frichlorofluoromethane	20.5	1.00	2.00	ug/L	1	20.0		102	80-120%			
,2,3-Trichloropropane	19.5	0.500	1.00	ug/L	1	20.0		97	80-120%			
,2,4-Trimethylbenzene	19.4	0.500	1.00	ug/L	1	20.0		97	80-120%			
,3,5-Trimethylbenzene	19.5	0.500	1.00	ug/L ug/L	1	20.0		98	80-120%			

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041086 - EPA 5030B							Wat	er				
LCS (1041086-BS1)			Prepared	1: 04/29/21	08:00 Ana	lyzed: 04/29	/21 08:41					
Vinyl chloride	16.4	0.200	0.400	ug/L	1	20.0		82	80-120%			
m,p-Xylene	41.4	0.500	1.00	ug/L	1	40.0		103	80-120%			
o-Xylene	18.9	0.250	0.500	ug/L	1	20.0		94	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Rece	overy: 97 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			96 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			97 %	80	0-120 %		"					
Duplicate (1041086-DUP1)			Prepared	1: 04/29/21	09:00 Anal	lyzed: 04/29	/21 12:06					
OC Source Sample: Non-SDG (A1	D1137-01)											
Acetone	ND	10.0	20.0	ug/L	1		ND				30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1		ND				30%	
Benzene	0.200	0.100	0.200	ug/L	1		0.160			22	30%	
Bromobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromoform	ND	0.500	1.00	ug/L	1		ND				30%	
Bromomethane	ND	5.00	5.00	ug/L	1		ND				30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1		ND				30%	
n-Butylbenzene	0.660	0.500	1.00	ug/L	1		0.550			18	30%	
sec-Butylbenzene	1.01	0.500	1.00	ug/L	1		0.890			13	30%	
ert-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1		ND				30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1		ND				30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Chloroethane	ND	5.00	5.00	ug/L	1		ND				30%	E
Chloroform	ND	0.500	1.00	ug/L	1		ND				30%	
Chloromethane	ND	2.50	5.00	ug/L	1		ND				30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1		ND				30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1		ND				30%	
Dibromomethane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source % REC Analyte Result Units Dilution RPD Limit Limit Amount Result Limits Limit Notes Batch 1041086 - EPA 5030B Water **Duplicate (1041086-DUP1)** Prepared: 04/29/21 09:00 Analyzed: 04/29/21 12:06 QC Source Sample: Non-SDG (A1D1137-01) 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 ND 30% ND 0.250 0.500 1,4-Dichlorobenzene ug/L 1 ND 30% ug/L Dichlorodifluoromethane ND 0.500 1.00 1 ND 30% EST 1,1-Dichloroethane ND 0.200 0.400ug/L 1 ND 30% 1,2-Dichloroethane (EDC) ND 0.200 0.400 1 ND 30% ug/L ---ND 0.200 ND 1,1-Dichloroethene 0.400 ug/L 1 30% cis-1,2-Dichloroethene ND 0.200 0.400ug/L 1 ND 30% trans-1,2-Dichloroethene ND ND 30% 0.200 0.400 ug/L 1 1,2-Dichloropropane ND 0.250 0.500 ug/L 1 ND 30% 1,3-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% 2,2-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 ND 30% 1,1-Dichloropropene ug/L 1 cis-1,3-Dichloropropene ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 ND 30% trans-1,3-Dichloropropene ug/L 1 0.250 ug/L Ethylbenzene 10.9 0.500 1 8.64 23 30% Hexachlorobutadiene ND 2.50 5.00 ug/L 1 ND ---30% 2-Hexanone ND 5.00 10.0 ug/L 1 ND 30% 0.500 30% Isopropylbenzene 1.62 1.00 1 1.33 20 ug/L 0.890 0.720 21 4-Isopropyltoluene 0.500 1.00 ug/L 1 30% 10.0 Methylene chloride ND 5.00 ND 30% ug/L 1 4-Methyl-2-pentanone (MiBK) ND ND 5.00 10.0 ug/L 1 30% Methyl tert-butyl ether (MTBE) ND 0.500 1.00 ug/L 1 ND ---30% Naphthalene 8.34 2.00 4.00 ug/L 1 6.47 25 30% ug/L 37 30% Q-05 n-Propylbenzene 3.14 0.250 0.500 1 2.15 ND 1.00 2.00 30% Styrene ug/L 1 ND ND 1,1,1,2-Tetrachloroethane 0.200 0.400 ND 30% ug/L 1 ---1,1,2,2-Tetrachloroethane ND 0.250 0.500 ND 30% ug/L 1 Tetrachloroethene (PCE) ND 0.200 0.400 ug/L 1 ---ND ---30% ND 0.500 1.00 ug/L 1 ND 30% 1,2,3-Trichlorobenzene ND 1.00 2.00 ND 30% ug/L 1 ---1,2,4-Trichlorobenzene ND 1.00 2.00 1 ND 30% ug/L 0.200 0.400 1,1,1-Trichloroethane ND ND 30% ug/L 1 1,1,2-Trichloroethane ND 0.250 0.500 ug/L 1 ND 30%

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 31 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

		,	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041086 - EPA 5030B							Wat	er				
Duplicate (1041086-DUP1)			Prepared	d: 04/29/21	09:00 Ana	lyzed: 04/29	/21 12:06					
QC Source Sample: Non-SDG (A1	D1137-01)											
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1		ND				30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1		ND				30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2,4-Trimethylbenzene	65.5	0.500	1.00	ug/L	1		49.3			28	30%	
1,3,5-Trimethylbenzene	1.00	0.500	1.00	ug/L	1		0.690			37	30%	Q-0
Vinyl chloride	ND	0.200	0.400	ug/L	1		ND				30%	
m,p-Xylene	3.10	0.500	1.00	ug/L	1		2.21			34	30%	Q-0
o-Xylene	23.5	0.250	0.500	ug/L	1		17.5			29	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 103 %	Limits: 80	0-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			96 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			98 %	80	0-120 %		"					
QC Source Sample: SW-2(042421) EPA 8260D	(A1D1005	<u>-02)</u>										
Acetone	ND	20.0	20.0	ug/L	1		ND				30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1		ND				30%	
Benzene	ND	0.100	0.200	ug/L	1		ND				30%	
Bromobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromoform	ND	0.500	1.00	ug/L	1		ND				30%	
Bromomethane	ND	5.00	5.00	ug/L	1		ND				30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1		ND				30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1		ND				30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1		ND				30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Chloroethane	ND	5.00	5.00	ug/L	1		ND				30%	ES
Chloroform	ND	0.500	1.00	ug/L	1		ND				30%	
Chloromethane	ND	2.50	5.00	ug/L	1		ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041086 - EPA 5030B							Wat	er				
Duplicate (1041086-DUP2)			Prepared	: 04/29/21	09:00 Anal	yzed: 04/29	/21 21:48					T-02
QC Source Sample: SW-2(042421)	(A1D1005	-02)										
2-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1		ND				30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1		ND				30%	
Dibromomethane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1		ND				30%	EST
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1		ND				30%	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1		ND				30%	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1		ND				30%	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1		ND				30%	
trans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1		ND				30%	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1		ND				30%	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1		ND				30%	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1		ND				30%	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1		ND				30%	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1		ND				30%	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1		ND				30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1		ND				30%	
2-Hexanone	ND	5.00	10.0	ug/L	1		ND				30%	
Isopropylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1		ND				30%	
Methylene chloride	ND	5.00	10.0	ug/L	1		ND				30%	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1		ND				30%	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1		ND				30%	
Naphthalene	ND	2.00	4.00	ug/L	1		ND				30%	
n-Propylbenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Styrene	ND	1.00	2.00	ug/L	1		ND				30%	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1		ND				30%	

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Org	garne 00	pourius	Sy LFA 0	,200					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041086 - EPA 5030B							Wat	er				
Duplicate (1041086-DUP2)			Prepared	: 04/29/21	09:00 Anal	yzed: 04/29	/21 21:48					T-02
QC Source Sample: SW-2(042421)	(A1D1005	-02)										
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1		ND				30%	
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1		ND				30%	
Гoluene	ND	0.500	1.00	ug/L	1		ND				30%	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1		ND				30%	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1		ND				30%	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1		ND				30%	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1		ND				30%	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1		ND				30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1		ND				30%	
,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1		ND				30%	
,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
sobutyl alcohol	ND	250	250	ug/L	1		ND				30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1		ND				30%	
n,p-Xylene	ND	0.500	1.00	ug/L	1		ND				30%	
o-Xylene	ND	0.250	0.500	ug/L	1		ND				30%	
Xylenes, total	ND	0.750	1.50	ug/L	1		ND				30%	
rans-1,4-Dichloro-2-butene	ND	5.00	10.0	ug/L	1		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 103 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			97 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			106 %	80	0-120 %		"					
Matrix Spike (1041086-MS1)			Prepared	: 04/29/21	09:00 Anal	yzed: 04/29	/21 15:59					
QC Source Sample: Non-SDG (A1)	D1137-04)		*			-						
EPA 8260D												
Acetone	902	250	500	ug/L	25	1000	ND	90	39-160%			
crylonitrile	527	25.0	50.0	ug/L	25	500	54.8	94	63-135%			
Benzene	520	2.50	5.00	ug/L	25	500	4.00	103	79-120%			
Bromobenzene	498	6.25	12.5	ug/L	25	500	ND	100	80-120%			
romochloromethane	466	12.5	25.0	ug/L	25	500	ND	93	78-123%			
romodichloromethane	464	12.5	25.0	ug/L	25	500	ND	93	79-125%			
romoform	503	12.5	25.0	ug/L	25	500	ND	101	66-130%			
Durama amathan a	422	125	125	/T	25	500	ND	0.4	52 1410/			0

Apex Laboratories

Philip Nevenberg

422

125

125

Bromomethane

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

84

ND

53-141%

Q-54i

Philip Nerenberg, Lab Director

25

ug/L

500



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 1041086 - EPA 5030B Water Matrix Spike (1041086-MS1) Prepared: 04/29/21 09:00 Analyzed: 04/29/21 15:59 QC Source Sample: Non-SDG (A1D1137-04) 2-Butanone (MEK) 125 250 ug/L 25 1000 ND 100 56-143% 610 12.5 25.0 500 n-Butylbenzene ug/L 25 16.8 119 75-128% ug/L sec-Butylbenzene 547 12.5 25.0 25 500 30.8 103 77-126% tert-Butylbenzene 534 12.5 25.0 ug/L 25 500 ND 107 78-124% Carbon disulfide 398 125 250 25 500 ND 80 64-133% ug/L 12.5 25.0 500 ND 102 72-136% Carbon tetrachloride 511 ug/L 25 Chlorobenzene 479 6.25 12.5 ug/L 25 500 ND 96 80-120% **ESTa** Chloroethane 400 125 25 500 ND 80 60-138% 125 ug/L ---Chloroform 473 12.5 25.0 ug/L 25 500 ND 95 79-124% Chloromethane 466 62.5 125 ug/L 25 500 ND 93 50-139% 2-Chlorotoluene 628 12.5 25.0 ug/L 25 500 ND 126 79-122% Q-01 4-Chlorotoluene 502 12.5 25.0 25 500 ND 100 78-122% ug/L 490 500 98 74-126% Dibromochloromethane 12.5 25.0 ug/L 25 ND 500 1,2-Dibromo-3-chloropropane 548 62.5 125 25 ND 110 62-128% ug/L 6.25 12.5 ug/L 1,2-Dibromoethane (EDB) 527 25 500 ND 105 77-121% Dibromomethane 483 12.5 25.0 ug/L 25 500 ND 97 79-123% ___ 1,2-Dichlorobenzene 530 6.25 12.5 ug/L 25 500 ND 106 80-120% 534 6.25 25 500 ND 107 80-120% 1,3-Dichlorobenzene 12.5 ug/L 467 25 500 ND 93 79-120% 1,4-Dichlorobenzene 6.25 12.5 ug/L EST 12.5 25.0 Dichlorodifluoromethane 472 25 500 ND 94 32-152% ug/L 439 5.00 25 500 ND 88 77-125% 1,1-Dichloroethane 10.0 ug/L 1,2-Dichloroethane (EDC) 434 5.00 10.0 ug/L 25 500 ND 87 73-128% 1,1-Dichloroethene 442 5.00 10.0 ug/L 25 500 ND 88 71-131% 477 5.00 25 500 ND 95 78-123% cis-1,2-Dichloroethene 10.0 ug/L 433 5.00 10.0 500 87 75-124% trans-1,2-Dichloroethene ug/L 25 ND 476 500 6.25 12.5 25 ND 95 78-122% 1,2-Dichloropropane ug/L 1,3-Dichloropropane 494 12.5 25.0 25 500 ND 99 80-120% ug/L 474 25 500 ND 95 60-139% 2,2-Dichloropropane 12.5 25.0 ug/L 1,1-Dichloropropene 577 12.5 25.0 ug/L 25 500 ND 115 79-125% 408 12.5 25.0 25 500 ND 82 75-124% cis-1,3-Dichloropropene ug/L trans-1,3-Dichloropropene 460 12.5 25.0 ug/L 25 500 ND 92 73-127% 1790 6.25 12.5 500 114 Ethylbenzene 25 1220 79-121% ug/L ---

Apex Laboratories

Philip Menherg

Hexachlorobutadiene

585

62.5

125

ug/L

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

117

66-134%

ND

Philip Nerenberg, Lab Director

Page 35 of 70

25

500



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Or	ganic Co	mpounds	by EPA 8	260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041086 - EPA 5030B							Wat	er				
Matrix Spike (1041086-MS1)			Prepared	: 04/29/21	09:00 Anal	yzed: 04/29/	21 15:59					
QC Source Sample: Non-SDG (A1	D1137-04)											
2-Hexanone	840	125	250	ug/L	25	1000	ND	84	57-139%			
sopropylbenzene	632	12.5	25.0	ug/L	25	500	93.2	108	72-131%			
l-Isopropyltoluene	598	12.5	25.0	ug/L	25	500	18.8	116	77-127%			
Methylene chloride	511	125	250	ug/L	25	500	ND	102	74-124%			
-Methyl-2-pentanone (MiBK)	924	125	250	ug/L	25	1000	ND	92	67-130%			
Methyl tert-butyl ether (MTBE)	456	12.5	25.0	ug/L	25	500	ND	91	71-124%			
Vaphthalene	894	50.0	100	ug/L	25	500	342	110	61-128%			
-Propylbenzene	1020	6.25	12.5	ug/L	25	500	416	121	76-126%			
tyrene	509	25.0	50.0	ug/L	25	500	ND	102	78-123%			
,1,1,2-Tetrachloroethane	492	5.00	10.0	ug/L	25	500	ND	98	78-124%			
,1,2,2-Tetrachloroethane	448	6.25	12.5	ug/L	25	500	ND	90	71-121%			
Tetrachloroethene (PCE)	528	5.00	10.0	ug/L	25	500	ND	106	74-129%			
oluene	508	12.5	25.0	ug/L	25	500	42.5	93	80-121%			
,2,3-Trichlorobenzene	543	25.0	50.0	ug/L	25	500	ND	109	69-129%			
,2,4-Trichlorobenzene	601	25.0	50.0	ug/L	25	500	ND	120	69-130%			
,1,1-Trichloroethane	487	5.00	10.0	ug/L	25	500	ND	97	74-131%			
,1,2-Trichloroethane	494	6.25	12.5	ug/L	25	500	ND	99	80-120%			
richloroethene (TCE)	520	5.00	10.0	ug/L	25	500	ND	104	79-123%			
richlorofluoromethane	458	25.0	50.0	ug/L	25	500	ND	92	65-141%			
,2,3-Trichloropropane	461	12.5	25.0	ug/L	25	500	ND	92	73-122%			
,2,4-Trimethylbenzene	2870	12.5	25.0	ug/L	25	500	2310	112	76-124%			
,3,5-Trimethylbenzene	1320	12.5	25.0	ug/L	25	500	760	111	75-124%			
inyl chloride	474	5.00	10.0	ug/L	25	500	ND	95	58-137%			
n,p-Xylene	5410	12.5	25.0	ug/L	25	1000	4580	84	80-121%			
-Xylene	1200	6.25	12.5	ug/L	25	500	656	109	78-122%			
urr: 1,4-Difluorobenzene (Surr)		Recon	very: 101 %	Limits: 80	0-120 %	Dilı	tion: 1x					
Toluene-d8 (Surr)			94 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			105 %	80	0-120 %		"					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 36 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Dilution Analyte Result Limit Units Result % REC RPD Limit Amount Limits Limit Notes Batch 1041139 - EPA 5030B Water Blank (1041139-BLK1) Prepared: 04/30/21 08:00 Analyzed: 04/30/21 10:06 EPA 8260D ND 10.0 20.0 ug/L Acetone ND 1.00 2.00 1 Acrylonitrile ug/L Benzene ND 0.100 0.200 ug/L 1 Bromobenzene ND 0.250 0.500 1 ug/L Bromochloromethane ND 0.500 1.00 1 ug/L Bromodichloromethane ND 0.500 1.00 1 ug/L Bromoform ND 1.00 2.00 1 ug/L Bromomethane 5.00 5.00 ND ug/L 1 2-Butanone (MEK) ND 5.00 10.0 ug/L 1 n-Butylbenzene ND 0.500 1.00 1 ug/L sec-Butylbenzene ND 0.500 1.00 ug/L 1 ND 0.500 tert-Butylbenzene 1.00 1 ug/L Carbon disulfide ND 5.00 10.0 ug/L 1 Carbon tetrachloride ND 0.500 1.00 ug/L 1 Chlorobenzene ND 0.250 0.500 ug/L 1 Chloroethane ND 5.00 5.00 ug/L 1 ---------Chloroform ND 0.500 1.00 ug/L 1 ND 2.50 5.00 Chloromethane 1 ug/L 2-Chlorotoluene ND 0.500 1.00 ug/L 1 4-Chlorotoluene ND 0.500 1.00 ug/L 1 ND Dibromochloromethane 0.500 1.00 ug/L 1 1,2-Dibromo-3-chloropropane ND 2.50 5.00 ug/L 1 1,2-Dibromoethane (EDB) ND 0.250 0.500 ug/L 1 ug/L Dibromomethane ND 0.500 1.00 1 0.500 0.250 1,2-Dichlorobenzene ND ug/L 1 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 1,4-Dichlorobenzene ND 0.250 0.500 ug/L 1 Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 1,1-Dichloroethane ND 0.200 0.400ug/L 1 0.200 1,2-Dichloroethane (EDC) ND 0.400ug/L 1 1,1-Dichloroethene ND 0.200 0.400 ug/L 1 cis-1,2-Dichloroethene ND 0.200 0.400 ug/L 1 trans-1,2-Dichloroethene ND 0.200 0.400 ug/L 1

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 37 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041139 - EPA 5030B							Wat	er				
Blank (1041139-BLK1)			Prepared	: 04/30/21	08:00 Anal	yzed: 04/30/	/21 10:06					
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1							
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1							
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1							
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1							
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
trans-1,3-Dichloropropene	ND	1.00	2.00	ug/L	1							
Ethylbenzene	ND	0.250	0.500	ug/L	1							
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1							
2-Hexanone	ND	5.00	10.0	ug/L	1							
Isopropylbenzene	ND	0.500	1.00	ug/L	1							
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1							
Methylene chloride	ND	5.00	10.0	ug/L	1							
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1							
Naphthalene	ND	1.00	2.00	ug/L	1							
n-Propylbenzene	ND	0.250	0.500	ug/L	1							
Styrene	ND	0.500	1.00	ug/L	1							
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1							
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1							
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1							
Toluene	ND	0.500	1.00	ug/L	1							
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1							
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1							
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1							
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1							
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1							
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
Vinyl chloride	ND	0.200	0.400	ug/L	1							
m,p-Xylene	ND	0.500	1.00	ug/L ug/L	1							
o-Xylene	ND	0.250	0.500	ug/L ug/L	1							
Surr: 1.4-Diffuorobenzene (Surr)	1.10	Reco		Limits: 80			ution: Ir					

Surr: 1,4-Difluorobenzene (Surr) Recovery: 112 % Limits: 80-120 % Dilution: 1x

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 38 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

		3260D										
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041139 - EPA 5030B							Wat	er				
Blank (1041139-BLK1)			Prepared	1: 04/30/21	08:00 Anal	lyzed: 04/30	/21 10:06					
Surr: Toluene-d8 (Surr)		Recor	very: 104 %	Limits: 8	0-120 %	Dili	ution: 1x					
4-Bromofluorobenzene (Surr)			105 %	80	0-120 %		"					
LCS (1041139-BS1)			Prepared	1: 04/30/21	08:00 Anal	lyzed: 04/30	/21 09:06					
EPA 8260D												
Acetone	40.9	10.0	20.0	ug/L	1	40.0		102	80-120%			
Acrylonitrile	22.9	1.00	2.00	ug/L	1	20.0		115	80-120%			
Benzene	21.6	0.100	0.200	ug/L	1	20.0		108	80-120%			
Bromobenzene	19.0	0.250	0.500	ug/L	1	20.0		95	80-120%			
Bromochloromethane	22.6	0.500	1.00	ug/L	1	20.0		113	80-120%			
Bromodichloromethane	26.2	0.500	1.00	ug/L	1	20.0		131	80-120%			Q-5
Bromoform	20.2	1.00	2.00	ug/L	1	20.0		101	80-120%			
Bromomethane	29.6	5.00	5.00	ug/L	1	20.0		148	80-120%			E-05, Q-5
2-Butanone (MEK)	46.4	5.00	10.0	ug/L	1	40.0		116	80-120%			
n-Butylbenzene	23.0	0.500	1.00	ug/L	1	20.0		115	80-120%			
sec-Butylbenzene	21.6	0.500	1.00	ug/L	1	20.0		108	80-120%			
tert-Butylbenzene	19.0	0.500	1.00	ug/L	1	20.0		95	80-120%			
Carbon disulfide	22.4	5.00	10.0	ug/L	1	20.0		112	80-120%			E-0
Carbon tetrachloride	23.8	0.500	1.00	ug/L	1	20.0		119	80-120%			
Chlorobenzene	20.2	0.250	0.500	ug/L	1	20.0		101	80-120%			
Chloroethane	37.6	5.00	5.00	ug/L	1	20.0		188	80-120%			E-05, Q-5
Chloroform	22.0	0.500	1.00	ug/L	1	20.0		110	80-120%			
Chloromethane	21.4	2.50	5.00	ug/L	1	20.0		107	80-120%			
2-Chlorotoluene	20.1	0.500	1.00	ug/L	1	20.0		101	80-120%			
4-Chlorotoluene	19.8	0.500	1.00	ug/L	1	20.0		99	80-120%			
Dibromochloromethane	19.6	0.500	1.00	ug/L	1	20.0		98	80-120%			
1,2-Dibromo-3-chloropropane	21.3	2.50	5.00	ug/L	1	20.0		106	80-120%			
1,2-Dibromoethane (EDB)	19.4	0.250	0.500	ug/L	1	20.0		97	80-120%			
Dibromomethane	22.9	0.500	1.00	ug/L	1	20.0		115	80-120%			
1,2-Dichlorobenzene	21.6	0.250	0.500	ug/L	1	20.0		108	80-120%			
1,3-Dichlorobenzene	20.8	0.250	0.500	ug/L	1	20.0		104	80-120%			
1,4-Dichlorobenzene	19.7	0.250	0.500	ug/L	1	20.0		99	80-120%			
Dichlorodifluoromethane	20.5	0.500	1.00	ug/L	1	20.0		103	80-120%			
1,1-Dichloroethane	21.1	0.200	0.400	ug/L	1	20.0		106	80-120%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 39 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041139 - EPA 5030B							Wat	er				
LCS (1041139-BS1)			Prepared	: 04/30/21	08:00 Anal	yzed: 04/30	/21 09:06					
1,2-Dichloroethane (EDC)	21.4	0.200	0.400	ug/L	1	20.0		107	80-120%			
1,1-Dichloroethene	19.4	0.200	0.400	ug/L	1	20.0		97	80-120%			
cis-1,2-Dichloroethene	20.3	0.200	0.400	ug/L	1	20.0		102	80-120%			
trans-1,2-Dichloroethene	20.0	0.200	0.400	ug/L	1	20.0		100	80-120%			
1,2-Dichloropropane	23.0	0.250	0.500	ug/L	1	20.0		115	80-120%			
1,3-Dichloropropane	21.0	0.500	1.00	ug/L	1	20.0		105	80-120%			
2,2-Dichloropropane	25.9	0.500	1.00	ug/L	1	20.0		130	80-120%			Q-56
1,1-Dichloropropene	21.2	0.500	1.00	ug/L	1	20.0		106	80-120%			
cis-1,3-Dichloropropene	18.0	0.500	1.00	ug/L	1	20.0		90	80-120%			
trans-1,3-Dichloropropene	20.7	1.00	2.00	ug/L	1	20.0		103	80-120%			
Ethylbenzene	20.4	0.250	0.500	ug/L	1	20.0		102	80-120%			
Hexachlorobutadiene	21.9	2.50	5.00	ug/L	1	20.0		110	80-120%			
2-Hexanone	40.4	5.00	10.0	ug/L	1	40.0		101	80-120%			
Isopropylbenzene	21.1	0.500	1.00	ug/L	1	20.0		105	80-120%			
4-Isopropyltoluene	20.6	0.500	1.00	ug/L	1	20.0		103	80-120%			
Methylene chloride	22.1	5.00	10.0	ug/L	1	20.0		111	80-120%			
4-Methyl-2-pentanone (MiBK)	41.7	5.00	10.0	ug/L	1	40.0		104	80-120%			
Methyl tert-butyl ether (MTBE)	22.1	0.500	1.00	ug/L	1	20.0		111	80-120%			
Naphthalene	18.8	1.00	2.00	ug/L	1	20.0		94	80-120%			
n-Propylbenzene	20.8	0.250	0.500	ug/L	1	20.0		104	80-120%			
Styrene	19.4	0.500	1.00	ug/L	1	20.0		97	80-120%			
1,1,2-Tetrachloroethane	20.8	0.200	0.400	ug/L	1	20.0		104	80-120%			
1,1,2,2-Tetrachloroethane	22.7	0.250	0.500	ug/L	1	20.0		114	80-120%			
Tetrachloroethene (PCE)	19.1	0.200	0.400	ug/L	1	20.0		96	80-120%			
Toluene	19.4	0.500	1.00	ug/L	1	20.0		97	80-120%			
1,2,3-Trichlorobenzene	21.4	1.00	2.00	ug/L	1	20.0		107	80-120%			
1,2,4-Trichlorobenzene	19.9	1.00	2.00	ug/L	1	20.0		100	80-120%			
1.1.1-Trichloroethane	21.8	0.200	0.400	ug/L	1	20.0		109	80-120%			
1,1,2-Trichloroethane	21.2	0.250	0.500	ug/L	1	20.0		106	80-120%			
Trichloroethene (TCE)	20.9	0.200	0.400	ug/L	1	20.0		105	80-120%			
Trichlorofluoromethane	30.2	1.00	2.00	ug/L	1	20.0		151	80-120%			Q-56
1,2,3-Trichloropropane	21.0	0.500	1.00	ug/L	1	20.0		105	80-120%			
1,2,4-Trimethylbenzene	22.0	0.500	1.00	ug/L ug/L	1	20.0		110	80-120%			
1,3,5-Trimethylbenzene	20.9	0.500	1.00	ug/L	1	20.0		105	80-120%			

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

		,	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041139 - EPA 5030B							Wat	er				
LCS (1041139-BS1)			Prepared	1: 04/30/21	08:00 Anal	lyzed: 04/30	/21 09:06					
Vinyl chloride	21.1	0.200	0.400	ug/L	1	20.0		105	80-120%			
m,p-Xylene	42.0	0.500	1.00	ug/L	1	40.0		105	80-120%			
o-Xylene	20.5	0.250	0.500	ug/L	1	20.0		103	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recor	very: 105 %	Limits: 80	0-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			96 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			92 %	80	0-120 %		"					
Duplicate (1041139-DUP1)			Prepared	1: 04/30/21	08:00 Anal	lyzed: 04/30	/21 12:49					
OC Source Sample: Non-SDG (A1	D1204-01)											
Acetone	ND	10.0	20.0	ug/L	1		ND				30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1		ND				30%	
Benzene	ND	0.100	0.200	ug/L	1		ND				30%	
Bromobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromoform	ND	1.00	2.00	ug/L	1		ND				30%	
Bromomethane	ND	5.00	5.00	ug/L	1		ND				30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1		ND				30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1		0.540			***	30%	Q-(
sec-Butylbenzene	0.760	0.500	1.00	ug/L	1		0.700			8	30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1		ND				30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1		ND				30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Chloroethane	ND	5.00	5.00	ug/L	1		ND				30%	
Chloroform	ND	0.500	1.00	ug/L	1		ND				30%	
Chloromethane	ND	2.50	5.00	ug/L	1		ND				30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1		ND				30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1		ND				30%	
Dibromomethane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source % REC Analyte Result Limit Units Dilution RPD Limit Amount Result Limits Limit Notes Batch 1041139 - EPA 5030B Water **Duplicate (1041139-DUP1)** Prepared: 04/30/21 08:00 Analyzed: 04/30/21 12:49 QC Source Sample: Non-SDG (A1D1204-01) 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 ND 30% ND 0.250 0.500 1,4-Dichlorobenzene ug/L 1 ND 30% ug/L Dichlorodifluoromethane ND 0.500 1.00 1 ND 30% 1,1-Dichloroethane ND 0.200 0.400ug/L 1 ND 30% 1,2-Dichloroethane (EDC) ND 0.200 0.400 1 ND 30% ug/L ---ND 0.200 ND 1,1-Dichloroethene 0.400 ug/L 1 30% cis-1,2-Dichloroethene ND 0.200 0.400ug/L 1 ND 30% trans-1,2-Dichloroethene ND ND 30% 0.200 0.400 ug/L 1 1,2-Dichloropropane ND 0.250 0.500 ug/L 1 ND 30% 1,3-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% 2,2-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 ND 30% 1,1-Dichloropropene ug/L 1 cis-1,3-Dichloropropene ND 0.500 1.00 ug/L 1 ND 30% ND 1.00 2.00 ND 30% trans-1,3-Dichloropropene ug/L 1 0.250 ug/L Ethylbenzene 1.40 0.500 1 1.39 0.7 30% Hexachlorobutadiene ND 2.50 5.00 ug/L 1 ND ---30% 2-Hexanone ND 5.00 10.0 ug/L 1 ND 30% 0.500 0.760 30% Isopropylbenzene 0.850 1.00 1 11 ug/L 0.580 0.500 0.570 2 4-Isopropyltoluene 1.00 ug/L 1 30% 5.00 10.0 Methylene chloride ND ND 30% ug/L 1 4-Methyl-2-pentanone (MiBK) ND 5.00 ND 30% 10.0 ug/L 1 Methyl tert-butyl ether (MTBE) ND 0.500 1.00 ug/L 1 ND ---30% Naphthalene 1.58 1.00 2.00 ug/L 1 1.52 4 30% 0.500 1.30 2 30% n-Propylbenzene 1.28 0.250 ug/L 1 ND 0.500 1.00 30% Styrene ug/L 1 ND ND 1,1,1,2-Tetrachloroethane 0.200 0.400 ND 30% ug/L 1 ---1,1,2,2-Tetrachloroethane ND 0.250 0.500 ND 30% ug/L 1 Tetrachloroethene (PCE) ug/L ND 0.200 0.400 1 ---ND ---30% ND 0.500 1.00 ug/L 1 ND 30% 1,2,3-Trichlorobenzene ND 1.00 2.00 ND 30% ug/L 1 ---1,2,4-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 30% ND 0.200 0.400 1,1,1-Trichloroethane 1 ND 30% ug/L 1,1,2-Trichloroethane ND 0.250 0.500 ug/L 1 ND 30%

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 42 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

		•	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041139 - EPA 5030B							Wat	er				
Duplicate (1041139-DUP1)			Prepared	1: 04/30/21	08:00 Anal	lyzed: 04/30	/21 12:49					
QC Source Sample: Non-SDG (A11	D1204-01)											
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1		ND				30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1		ND				30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2,4-Trimethylbenzene	8.94	0.500	1.00	ug/L	1		8.72			2	30%	
1,3,5-Trimethylbenzene	4.29	0.500	1.00	ug/L	1		4.49			5	30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1		ND				30%	
m,p-Xylene	6.25	0.500	1.00	ug/L	1		6.00			4	30%	
o-Xylene	3.37	0.250	0.500	ug/L	1		3.37			0	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 113 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			102 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			94 %	80	-120 %		"					
QC Source Sample: Non-SDG (A11 EPA 8260D	D1171-01)											
<u> </u>						40.0						
Acetone	136	10.0 1.00	20.0 2.00	ug/L	1	40.0	101		39-160%			
Acrylonitrile	24.0 23.0	0.100		ug/L	1 1	20.0 20.0	ND ND		63-135% 79-120%			
Benzene Bromobenzene	19.1	0.100	0.200 0.500	ug/L		20.0	ND ND		80-120%			
Bromooenzene Bromochloromethane		0.230	1.00	ug/L	1	20.0	ND ND					
Bromochioromethane Bromodichloromethane	24.0 28.2	0.500	1.00	ug/L	1	20.0	ND ND		78-123%			Q-54
Bromoform	20.3	1.00	2.00	ug/L ug/L	1	20.0	ND ND		79-125% 66-130%			Q-34
Bromomethane	32.1	5.00	5.00	ug/L ug/L	1	20.0	ND ND		53-141%			E-05, Q-54
2-Butanone (MEK)	50.0	5.00	10.0		1	40.0	ND ND		56-143%			E-05, Q-54
n-Butylbenzene	24.1	0.500	1.00	ug/L ug/L	1	20.0	ND ND		75-128%			
n-Butylbenzene sec-Butylbenzene	22.4	0.500	1.00	ug/L ug/L	1	20.0	ND ND		77-126%			
tert-Butylbenzene	19.6	0.500	1.00	ug/L ug/L	1	20.0	ND ND		78-124%			
Carbon disulfide	24.0	5.00	10.0	ug/L ug/L	1	20.0	ND ND		64-133%			E-0
Carbon disumde Carbon tetrachloride	25.6	0.500	1.00	ug/L ug/L	1	20.0	ND ND		72-136%			12-0
Chlorobenzene	20.7	0.300	0.500	ug/L ug/L	1	20.0	ND ND		80-120%			
Chloroethane	40.4	5.00	5.00	ug/L ug/L	1	20.0	ND ND		60-138%			E-05, Q-54
Chiorochiane	40.4	5.00	5.00	ug/L	1	20.0	ND	202	00-130/0			L-05, Q-5-
Chloroform	23.2	0.500	1.00	ug/L	1	20.0	ND	116	79-124%			

Apex Laboratories

Philip Newberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1041139 - EPA 5030B Water Matrix Spike (1041139-MS1) Prepared: 04/30/21 08:00 Analyzed: 04/30/21 11:27 QC Source Sample: Non-SDG (A1D1171-01) 2-Chlorotoluene 20.4 0.500 1.00 ug/L 1 20.0 ND 102 79-122% 20.0 0.500 1.00 20.0 4-Chlorotoluene ug/L 1 ND 100 78-122% ug/L Dibromochloromethane 19.8 0.500 1.00 1 20.0 ND 99 74-126% 1,2-Dibromo-3-chloropropane 21.9 2.50 5.00 ug/L 1 20.0 ND 110 62-128% 1,2-Dibromoethane (EDB) 20.7 0.250 0.500 1 20.0 ND 103 77-121% ug/L Dibromomethane 23.8 0.500 1.00 20.0 ND 119 79-123% ug/L 1 1,2-Dichlorobenzene 21.6 0.250 0.500 ug/L 1 20.0 ND 108 80-120% 0.500 20.0 ND 107 80-120% 1.3-Dichlorobenzene 21.4 0.250 ug/L 1 1,4-Dichlorobenzene 20.2 0.250 0.500 ug/L 1 20.0 ND 101 79-120% Dichlorodifluoromethane 22.4 0.500 1.00 ug/L 1 20.0 ND 112 32-152% 1,1-Dichloroethane 22.2 0.200 0.400 ug/L 1 20.0 ND 111 77-125% 1,2-Dichloroethane (EDC) 22.5 0.200 0.400 20.0 ND 112 73-128% ug/L 1 20.0 1,1-Dichloroethene 21.0 0.200 0.400 ug/L 1 ND 105 71-131% 20.0 cis-1,2-Dichloroethene 21.7 0.200 0.400 ND 108 78-123% ug/L 1 ug/L trans-1,2-Dichloroethene 21.6 0.200 0.400 1 20.0 ND 108 75-124% 1,2-Dichloropropane 24.5 0.250 0.500 ug/L 1 20.0 ND 123 78-122% ___ O - 0.11,3-Dichloropropane 21.8 0.500 1.00 ug/L 1 20.0 ND 109 80-120% 26.0 0.500 20.0 ND 60-139% O-54 2,2-Dichloropropane 1.00 1 130 ug/L 22.7 20.0 ND 79-125% 1,1-Dichloropropene 0.500 1.00 ug/L 1 113 0.500 1.00 20.0 92 cis-1,3-Dichloropropene 18.5 ND 75-124% ug/L 1 trans-1,3-Dichloropropene 20.0 ND 107 73-127% 21.5 1.00 2.00 ug/L 1 0.250 Ethylbenzene 21.6 0.500 ug/L 1 20.0 ND 108 79-121% Hexachlorobutadiene 22.4 2.50 5.00 ug/L 1 20.0 ND 112 66-134% 2-Hexanone 43.7 40.0 ND 109 57-139% 5.00 10.0 ug/L 1 22.5 0.500 1.00 20.0 ND 112 72-131% Isopropylbenzene ug/L 1 20.0 21.9 0.500 1.00 ND 109 77-127% 4-Isopropyltoluene ug/L 1 Methylene chloride 21.5 5.00 10.0 20.0 ND 108 74-124% ug/L 1 40.0 ND 67-130% 4-Methyl-2-pentanone (MiBK) 43.2 5.00 10.0 ug/L 1 108 Methyl tert-butyl ether (MTBE) 23.2 0.500 1.00 ug/L 1 20.0 ND 116 71-124% Naphthalene 19.7 1.00 2.00 1 20.0 ND 98 61-128% ug/L n-Propylbenzene 21.6 0.250 0.500 1 20.0 ND 108 76-126% ug/L 19.9 0.500 1.00 20.0 ND 100 Styrene 1 78-123% ug/L ---

Apex Laboratories

Philip Menherg

1,1,1,2-Tetrachloroethane

20.8

0.200

0.400

ug/L

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

104

78-124%

ND

Philip Nerenberg, Lab Director

Page 44 of 70

1

20.0



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1041139 - EPA 5030B Water Matrix Spike (1041139-MS1) Prepared: 04/30/21 08:00 Analyzed: 04/30/21 11:27 QC Source Sample: Non-SDG (A1D1171-01) 1,1,2,2-Tetrachloroethane 22.3 0.250 0.500 ug/L 1 20.0 ND 112 71-121% 20.5 0.200 0.400 20.0 Tetrachloroethene (PCE) ug/L 1 ND 103 74-129% 20.0 80-121% Toluene 20.4 0.500 1.00 ug/L 1 ND 102 1,2,3-Trichlorobenzene 22.3 1.00 2.00 ug/L 1 20.0 ND 112 69-129% 1,2,4-Trichlorobenzene 20.7 1.00 2.00 ug/L 1 20.0 ND 103 69-130% 1,1,1-Trichloroethane 23.2 0.200 0.400 20.0 ND 74-131% ug/L 1 116 80-120% 1,1,2-Trichloroethane 22.1 0.250 0.500 ug/L 1 20.0 ND 110 Trichloroethene (TCE) 22.0 0.40020.0 ND 110 79-123% 0.200 ug/L 1 20.0 Q-54f Trichlorofluoromethane 32.8 1.00 2.00 ug/L 1 ND 164 65-141% 1,2,3-Trichloropropane 21.7 0.500 1.00 ug/L 1 20.0 ND 108 73-122% 1,2,4-Trimethylbenzene 22.5 0.500 1.00 ug/L 1 20.0 ND 112 76-124% 20.0 1,3,5-Trimethylbenzene 22.0 0.500 1.00 ND 110 75-124% ug/L 1 22.6 0.200 20.0 ND 58-137% Vinyl chloride 0.400 ug/L 1 113 1.00 40.0 m,p-Xylene 44.2 0.500 ND 111 80-121% ug/L 1 0.250 0.500 78-122% o-Xylene 21.7 ug/L Surr: 1,4-Difluorobenzene (Surr) Recovery: 109 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 97 % 80-120 % 4-Bromofluorobenzene (Surr) 91 % 80-120 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 45 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

		Vo	latile Orga	nic Com	pounds b	y EPA 826	OD SIM					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041149 - EPA 5030B							Wat	er				
Blank (1041149-BLK1)			Prepared	: 04/30/21	08:30 Anal	yzed: 04/30/	/21 12:02					
EPA 8260D SIM												
Benzene	ND	0.0500	0.100	ug/L	1							
Toluene	ND	0.0500	0.100	ug/L	1							
Ethylbenzene	ND	0.0500	0.100	ug/L	1							
n,p-Xylene	ND	0.100	0.200	ug/L	1							
o-Xylene	ND	0.0500	0.100	ug/L	1							
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1							
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1							
Chloroform	ND	0.0500	0.100	ug/L	1							
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1							
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1							
,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1							
,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1							
,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
rans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1							
eis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1							
rans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1							
,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1							
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1							
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1							
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1							
,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1							
Vinyl chloride	ND	0.0100	0.0200	ug/L	1							
urr: 1,4-Difluorobenzene (Surr)			erv: 103 %	Limits: 80		Dilı	ıtion: 1x					
Toluene-d8 (Surr)		1.000	96%		0-120 %	2	"					
4-Bromofluorobenzene (Surr)			84 %		0-120 %		"					
, Bromojinorobenzene (Burr)			0,70		. 120 / 0							
LCS (1041149-BS1)			Prepared	: 04/30/21	08:30 Anal	yzed: 04/30/	/21 10:46					
EPA 8260D SIM												
Benzene	0.223	0.0500	0.100	ug/L	1	0.200		111	80-120%			
Toluene	0.191	0.0500	0.100	ug/L	1	0.200		95	80-120%			

Apex Laboratories

Philip Menherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

		Vo	latile Orga	nic Com	pounds b	y EPA 826	SOD SIM					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041149 - EPA 5030B							Wat	er				
LCS (1041149-BS1)			Prepared	1: 04/30/21	08:30 Ana	yzed: 04/30	/21 10:46					
Ethylbenzene	0.196	0.0500	0.100	ug/L	1	0.200		98	80-120%			
n,p-Xylene	0.379	0.100	0.200	ug/L	1	0.400		95	80-120%			
o-Xylene	0.183	0.0500	0.100	ug/L	1	0.200		91	80-120%			
1,2,4-Trimethylbenzene	0.189	0.0500	0.100	ug/L	1	0.200		95	80-120%			
1,3,5-Trimethylbenzene	0.193	0.0500	0.100	ug/L	1	0.200		97	80-120%			
Chloroform	0.235	0.0500	0.100	ug/L	1	0.200		118	80-120%			
1,2-Dibromo-3-chloropropane	0.274	0.100	0.200	ug/L	1	0.200		137	80-120%			Q-5
1,2-Dibromoethane (EDB)	0.231	0.0100	0.0200	ug/L	1	0.200		116	80-120%			
1,1-Dichloroethane	0.239	0.0100	0.0200	ug/L	1	0.200		119	80-120%			
1,2-Dichloroethane (EDC)	0.260	0.0100	0.0200	ug/L	1	0.200		130	80-120%			Q-5
1,1-Dichloroethene	0.192	0.0100	0.0200	ug/L	1	0.200		96	80-120%			
cis-1,2-Dichloroethene	0.217	0.0100	0.0200	ug/L	1	0.200		109	80-120%			
rans-1,2-Dichloroethene	0.216	0.0100	0.0200	ug/L	1	0.200		108	80-120%			
1,2-Dichloropropane	0.258	0.0100	0.0200	ug/L	1	0.200		129	80-120%			Q-5
cis-1,3-Dichloropropene	0.216	0.0100	0.0200	ug/L	1	0.200		108	80-120%			
rans-1,3-Dichloropropene	0.237	0.0100	0.0200	ug/L	1	0.200		119	80-120%			
Methyl tert-butyl ether (MTBE)	0.223	0.0100	0.0200	ug/L	1	0.200		112	80-120%			
1,1,2,2-Tetrachloroethane	0.299	0.0100	0.0200	ug/L	1	0.200		150	80-120%			Q-5
Tetrachloroethene (PCE)	0.224	0.0100	0.0200	ug/L	1	0.200		112	80-120%			
1,1,2-Trichloroethane	0.232	0.0100	0.0200	ug/L	1	0.200		116	80-120%			
Trichloroethene (TCE)	0.226	0.0100	0.0200	ug/L	1	0.200		113	80-120%			
1,2,3-Trichloropropane	0.268	0.0500	0.100	ug/L	1	0.200		134	80-120%			Q-5
Vinyl chloride	0.224	0.0100	0.0200	ug/L	1	0.200		112	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 99 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			96 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			83 %	80	-120 %		"					
Duplicate (1041149-DUP1)			Prepared	1: 04/30/21	11:31 Ana	yzed: 04/30	/21 15:09					
OC Source Sample: DUP(042421)	(A1D1005-0	03)										
Benzene	ND	0.0500	0.100	ug/L	1		ND				30%	
Toluene	ND	0.0500	0.100	ug/L	1		ND				30%	
Ethylbenzene	ND	0.0500	0.100	ug/L	1		ND				30%	
n,p-Xylene	ND	0.100	0.200	ug/L	1		ND				30%	
o-Xylene	ND	0.0500	0.100	ug/L	1		ND				30%	

Apex Laboratories

Philip Newberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

			latile Orga			-						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1041149 - EPA 5030B							Wat	er				
Duplicate (1041149-DUP1)			Prepared	1: 04/30/21	11:31 Anal	lyzed: 04/30	/21 15:09					
QC Source Sample: DUP(042421)	(A1D1005-0	03)										
1,2,4-Trimethylbenzene	ND	0.0500	0.100	ug/L	1		ND				30%	
1,3,5-Trimethylbenzene	ND	0.0500	0.100	ug/L	1		ND				30%	
Chloroform	ND	0.0500	0.100	ug/L	1		ND				30%	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1		ND				30%	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1		ND				30%	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1		ND				30%	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1		ND				30%	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1		ND				30%	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1		ND				30%	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1		ND				30%	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1		ND				30%	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1		ND				30%	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 103 %	Limits: 80	0-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			95 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			84 %	80	0-120 %		"					
Matrix Spike (1041149-MS1)			Prepared	1: 04/30/21	11:31 Anal	lyzed: 04/30	/21 15:36					
QC Source Sample: DUP(042421)	(A1D1005-0	03)										
Benzene	0.257	0.0500	0.100	ug/L	1	0.200	ND	129	79-120%			Q-
Toluene	0.206	0.0500	0.100	ug/L	1	0.200	ND	103	80-121%			
Ethylbenzene	0.192	0.0500	0.100	ug/L	1	0.200	ND	96	79-121%			
m,p-Xylene	0.412	0.100	0.200	ug/L	1	0.400	ND		80-121%			
o-Xylene	0.171	0.0500	0.100	ug/L	1	0.200	ND		78-122%			
1,2,4-Trimethylbenzene	0.176	0.0500	0.100	ug/L	1	0.200	ND		76-124%			
1,3,5-Trimethylbenzene	0.180	0.0500	0.100	ug/L	1	0.200	ND		75-124%			

Apex Laboratories

Philip Manherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 1041149 - EPA 5030B Water Matrix Spike (1041149-MS1) Prepared: 04/30/21 11:31 Analyzed: 04/30/21 15:36 QC Source Sample: DUP(042421) (A1D1005-03) Chloroform 0.266 0.0500 0.100 ug/L 1 0.200 ND 133 79-124% Q-01 0.100 0.200 0.200 J, Q-54c 1,2-Dibromo-3-chloropropane 0.199 ug/L 1 ND 99 62-128% 0.0100 1,2-Dibromoethane (EDB) 0.218 0.0200 ug/L 1 0.200 ND 109 77-121% Q-01 1,1-Dichloroethane 0.279 0.0100 0.0200ug/L 1 0.200 ND 139 77-125% 1,2-Dichloroethane (EDC) 0.289 0.0100 0.0200 ug/L 1 0.200 ND 145 73-128% Q-54 ---71-131% 0.0100 0.02000.200ND 1,1-Dichloroethene 0.241 ug/L 1 120 cis-1,2-Dichloroethene 0.246 0.01000.0200ug/L 1 0.200 ND 123 78-123% Q-01 trans-1,2-Dichloroethene 0.265 0.0100 0.02000.200 ND ug/L 1 132 75-124% Q-54h 1,2-Dichloropropane 0.282 0.0100 0.0200 ug/L 1 0.200 ND 141 78-122% cis-1,3-Dichloropropene 0.211 0.0100 0.0200 ug/L 1 0.200 ND 105 75-124% trans-1,3-Dichloropropene 0.214 0.0100 0.0200 ug/L 1 0.200 ND 107 73-127% 0.0100 Methyl tert-butyl ether (MTBE) 0.247 0.02000.200 ND 124 71-124% ug/L 1 0.0100 0.200 71-121% Q-54e 1,1,2,2-Tetrachloroethane 0.221 0.0200ug/L 1 ND 111 Tetrachloroethene (PCE) 0.228 0.0100 0.0200 0.200 ND 114 74-129% ug/L 1 0.0100 0.0200 1,1,2-Trichloroethane 0.220 ug/L 1 0.200 ND 110 80-120% Trichloroethene (TCE) 0.239 0.0100 0.0200 ug/L 1 0.200 ND 120 79-123% ___ 1,2,3-Trichloropropane 0.234 0.0500 0.100 ug/L 1 0.200 ND 117 73-122% Q-54b Vinyl chloride 0.334 0.0100 0.0200 0.200 ND Q-01 ug/L 167 58-137% Surr: 1,4-Difluorobenzene (Surr) 102 % Limits: 80-120 % Recovery: Dilution: 1x

80-120 %

80-120 %

96 %

84 %

Apex Laboratories

Philip Nevenberg

Toluene-d8 (Surr)

4-Bromofluorobenzene (Surr)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 49 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlor	inated B	iphenyls	by EPA 80)82A					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1050125 - EPA 3510C((Neutral pH)					Wat	er				
Blank (1050125-BLK1)			Prepared	: 05/05/21	10:05 Ana	lyzed: 05/05	/21 19:12					C-07
EPA 8082A												
Aroclor 1016	ND	0.00909	0.0182	ug/L	1							
Aroclor 1221	ND	0.00909	0.0182	ug/L	1							
Aroclor 1232	ND	0.00909	0.0182	ug/L	1							
Aroclor 1242	ND	0.00909	0.0182	ug/L	1							
Aroclor 1248	ND	0.00909	0.0182	ug/L	1							
Aroclor 1254	ND	0.00909	0.0182	ug/L	1							
Aroclor 1260	ND	0.00909	0.0182	ug/L	1							
Surr: Decachlorobiphenyl (Surr)		Reco	very: 76%	Limits: 40	0-135 %	Dilt	ution: 1x					
LCS (1050125-BS1)			Prepared	: 05/05/21	10:05 Ana	lyzed: 05/05	/21 19:29					C-07
EPA 8082A												
Aroclor 1016	0.701	0.0100	0.0200	ug/L	1	1.25		56	46-129%			
Aroclor 1260	0.916	0.0100	0.0200	ug/L	1	1.25		73	45-134%			
Surr: Decachlorobiphenyl (Surr)		Reco	very: 81 %	Limits: 40	0-135 %	Dilı	ution: 1x					
LCS Dup (1050125-BSD1)			Prepared	: 05/05/21	10:05 Ana	lyzed: 05/05	/21 19:47					C-07, Q-19
EPA 8082A												
Aroclor 1016	0.592	0.0100	0.0200	ug/L	1	1.25		47	46-129%	17	30%	
Aroclor 1260	0.800	0.0100	0.0200	ug/L	1	1.25		64	45-134%	14	30%	
Surr: Decachlorobiphenyl (Surr)		Reco	very: 69 %	Limits: 40	0-135 %	Dilı	ution: 1x					

Apex Laboratories

Philip Newsberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1041137 - EPA 3510C (Acid Extraction) Water Blank (1041137-BLK2) Prepared: 04/30/21 07:23 Analyzed: 04/30/21 12:14 EPA 8270E Acenaphthene ND 0.00909 0.0182 ug/L 0.00909 ND 0.0182 ug/L 1 Acenaphthylene Anthracene ND 0.00909 0.0182 ug/L 1 0.0182 Benz(a)anthracene ND 0.00909 1 ug/L ND 0.0136 0.0273 ug/L 1 Benzo(a)pyrene 0.0136 0.0273 Benzo(b)fluoranthene ND ug/L 1 Benzo(k)fluoranthene ND 0.0136 0.0273 ug/L 1 0.00909 0.0182 ND Benzo(g,h,i)perylene ug/L 1 Chrysene ND 0.00909 0.0182 ug/L 1 Dibenz(a,h)anthracene ND 0.00909 0.0182 ug/L 1 Fluoranthene ND 0.009090.0182 ug/L 1 ND 0.00909 0.0182 Fluorene ug/L 1 Indeno(1,2,3-cd)pyrene ND 0.00909 0.0182 ug/L 1 1-Methylnaphthalene ND 0.0182 0.0364 ug/L 1 0.0182 2-Methylnaphthalene ND 0.0364 ug/L 1 Naphthalene ND 0.0182 0.0364 ug/L 1 ------------Phenanthrene ND 0.00909 0.0182 ug/L 1 ND 0.00909 0.0182 Pyrene ug/L 1 ---Carbazole ND 0.0136 0.0273 ug/L 1 Dibenzofuran ND 0.00909 0.0182 ug/L 1 Bis(2-ethylhexyl)phthalate ND 0.182 0.364 ug/L 1 Butyl benzyl phthalate ND 0.182 0.364 ug/L 1 0.182 Diethylphthalate ND 0.364 ug/L 1 Dimethylphthalate ND 0.182 0.364 ug/L 1 ND 0.182 0.364 Di-n-butylphthalate ug/L 1 Di-n-octyl phthalate ND 0.182 0.364 ug/L 1 Surr: Nitrobenzene-d5 (Surr) Recovery: 69 % Limits: 44-120 % Dilution: 1x 2-Fluorobiphenyl (Surr) 71 % 44-120 % Phenol-d6 (Surr) 27% 10-133 % p-Terphenyl-d14 (Surr) 79% 50-134 % 2-Fluorophenol (Surr) 43 % 19-120 % 2,4,6-Tribromophenol (Surr) 89 % 43-140 %

Apex Laboratories

Philip Menherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 51 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Analyte Result Limit Units Dilution Amount Result % REC RPD Limit Limits Limit Notes Batch 1041137 - EPA 3510C (Acid Extraction) Water LCS (1041137-BS2) Prepared: 04/30/21 07:23 Analyzed: 04/30/21 12:50 EPA 8270E Acenaphthene 3.25 0.0400 0.0800 ug/L 4 4.00 47-122% 0.0400 4 4.00 85 3.38 0.0800 41-130% Acenaphthylene ug/L ---Anthracene 3.44 0.0400 0.0800 ug/L 4 4.00 86 57-123% Benz(a)anthracene 3.44 0.0400 0.0800 4 4.00 86 58-125% ug/L 3.26 0.0600 0.120 4 4.00 81 54-128% Benzo(a)pyrene ug/L 0.0600 4 4.00 87 53-131% Benzo(b)fluoranthene 3.49 0.120 ug/L Benzo(k)fluoranthene 3.44 0.0600 0.120 4 4.00 86 57-129% ug/L 0.0400 0.0800 4 4.00 3.48 87 50-134% Benzo(g,h,i)perylene ug/L Chrysene 3.38 0.0400 0.0800 ug/L 4 4.00 85 59-123% Dibenz(a,h)anthracene 3.45 0.0400 0.0800 ug/L 4 4.00 86 51-134% Fluoranthene 3.48 0.04000.0800 ug/L 4 4.00 87 57-128% 3.25 0.0400 0.0800 4 4.00 81 52-124% Fluorene ug/L 0.0400 Indeno(1,2,3-cd)pyrene 3.39 0.0800ug/L 4 4.00 85 52-134% 3.19 0.0800 0.160 4 4.00 80 41-120% 1-Methylnaphthalene ug/L 2-Methylnaphthalene 3.15 0.08000.160 ug/L 4 4.00 79 40-121% Naphthalene 2.96 0.0800 0.160 ug/L 4 4.00 74 40-121% ------Phenanthrene 3.27 0.04000.0800ug/L 4 4.00 82 59-120% 3.40 0.0400 0.0800 4 4.00 85 57-126% Pyrene ug/L ---Carbazole 3.62 0.06000.120 ug/L 4 4.00 90 60-122% Dibenzofuran 3.09 0.0400 0.0800 ug/L 4 4.00 77 53-120% Bis(2-ethylhexyl)phthalate 3.37 0.800 1.60 ug/L 4 4.00 84 55-135% Butyl benzyl phthalate 3.40 0.800 1.60 ug/L 4 4.00 85 53-134% 0.800 Diethylphthalate 3.37 1.60 ug/L 4 4.00 84 56-125% Dimethylphthalate 3.34 0.800 1.60 ug/L 4 4.00 84 45-127% 0.800 1.60 4.00 Di-n-butylphthalate 3.50 ug/L 4 88 59-127% ug/L Di-n-octyl phthalate 3.27 0.800 1.60 4 51-140% Surr: Nitrobenzene-d5 (Surr) Recovery: 72 % Limits: 44-120 % Dilution: 4x 2-Fluorobiphenyl (Surr) 79% 44-120 % Phenol-d6 (Surr) 24 % 10-133 % p-Terphenyl-d14 (Surr) 80 % 50-134 % 2-Fluorophenol (Surr) 37% 19-120 % 92 % 43-140 % 2,4,6-Tribromophenol (Surr)

Apex Laboratories

Philip Menherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 52 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Analyte Result Limit Units Dilution Amount Result % REC Limits RPD Limit Limit Notes Batch 1041137 - EPA 3510C (Acid Extraction) Water LCS Dup (1041137-BSD2) Prepared: 04/30/21 07:23 Analyzed: 04/30/21 13:25 Q-19 EPA 8270E Acenaphthene 3.32 0.0400 0.0800 ug/L 4 4.00 83 47-122% 2 30% 4 4.00 2 30% 3.45 0.0400 0.0800 86 41-130% Acenaphthylene ug/L ---Anthracene 3.53 0.0400 0.0800 ug/L 4 4.00 88 57-123% 3 30% Benz(a)anthracene 3.64 0.0400 0.0800 4 4.00 91 58-125% 6 30% ug/L 3.33 0.0600 0.120 4 4.00 83 54-128% 2 30% Benzo(a)pyrene ug/L 4 4.00 90 53-131% Benzo(b)fluoranthene 3.61 0.0600 0.120 ug/L 3 30% Benzo(k)fluoranthene 3.58 0.0600 0.120 4 4.00 90 57-129% 4 30% ug/L 0.0400 0.0800 4 4.00 91 3.63 50-134% 4 30% Benzo(g,h,i)perylene ug/L Chrysene 3.48 0.0400 0.0800 ug/L 4 4.00 87 59-123% 3 30% Dibenz(a,h)anthracene 3.55 0.0400 0.0800 ug/L 4 4.00 89 51-134% 3 30% Fluoranthene 3.63 0.04000.0800 ug/L 4 4.00 91 57-128% 4 30% 3.36 0.0400 0.0800 4 4.00 84 52-124% 3 30% Fluorene ug/L 0.0400 Indeno(1,2,3-cd)pyrene 3.49 0.0800ug/L 4 4.00 87 52-134% 3 30% 3.11 0.0800 0.160 4 4.00 78 41-120% 3 30% 1-Methylnaphthalene ug/L 2-Methylnaphthalene 3.17 0.08000.160 ug/L 4 4.00 79 40-121% 0.5 30% Naphthalene 2.94 0.0800 0.160 ug/L 4 4.00 73 40-121% 0.7 30% ---Phenanthrene 3.36 0.04000.0800 ug/L 4 4.00 84 59-120% 3 30% 3.55 0.0400 0.0800 ug/L 4 4.00 89 57-126% 4 30% Pyrene Carbazole 3.78 0.06000.120 ug/L 4 4.00 95 60-122% 4 30% Dibenzofuran 3.20 0.0400 0.0800 ug/L 4 4.00 80 53-120% 3 30% 3.54 89 Bis(2-ethylhexyl)phthalate 0.800 1.60 ug/L 4 4.00 55-135% 5 30% Butyl benzyl phthalate 3.53 0.800 1.60 ug/L 4 4.00 88 53-134% 4 30% 0.800 3 Diethylphthalate 3.47 1.60 ug/L 4 4.00 87 56-125% 30% Dimethylphthalate 3.44 0.800 1.60 ug/L 4 4.00 86 45-127% 3 30% 0.800 1.60 4.00 90 3 Di-n-butylphthalate 3.60 ug/L 4 59-127% 30% ug/L Di-n-octyl phthalate 3.32 0.800 1.60 51-140% 30% Surr: Nitrobenzene-d5 (Surr) Recovery: 68 % Limits: 44-120 % Dilution: 4x 44-120 % 2-Fluorobiphenyl (Surr) 81% Phenol-d6 (Surr) 23 % 10-133 % p-Terphenyl-d14 (Surr) 84 % 50-134 % 2-Fluorophenol (Surr) 38 % 19-120 % 43-140 % 2,4,6-Tribromophenol (Surr) 93 %

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 53 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1041177 - EPA 3510C (Acid Extraction) Water Blank (1041177-BLK1) Prepared: 04/30/21 14:40 Analyzed: 05/03/21 22:06 EPA 8270E Acenaphthene ND 0.00909 0.0182 ug/L 0.00909 ND 0.0182 ug/L 1 Acenaphthylene Anthracene ND 0.00909 0.0182 ug/L 1 0.0182 Benz(a)anthracene ND 0.00909 1 ug/L ND 0.0136 0.0273 ug/L 1 Benzo(a)pyrene 0.0136 0.0273 Benzo(b)fluoranthene ND ug/L 1 Benzo(k)fluoranthene ND 0.0136 0.0273 ug/L 1 0.00909 0.0182 ND Benzo(g,h,i)perylene ug/L 1 Chrysene ND 0.00909 0.0182 ug/L 1 Dibenz(a,h)anthracene ND 0.00909 0.0182 ug/L 1 Fluoranthene ND 0.009090.0182 ug/L 1 ND 0.00909 0.0182 Fluorene 1 ug/L Indeno(1,2,3-cd)pyrene ND 0.00909 0.0182 ug/L 1 1-Methylnaphthalene ND 0.0182 0.0364 ug/L 1 0.0182 2-Methylnaphthalene ND 0.0364 ug/L 1 Naphthalene ND 0.0182 0.0364 ug/L 1 ------------Phenanthrene ND 0.00909 0.0182 ug/L 1 ND 0.00909 0.0182 Pyrene ug/L 1 ---Carbazole ND 0.0136 0.0273 ug/L 1 Dibenzofuran ND 0.00909 0.0182 ug/L 1 Bis(2-ethylhexyl)phthalate ND 0.182 0.364 ug/L 1 Butyl benzyl phthalate ND 0.182 0.364 ug/L 1 0.182 Diethylphthalate ND 0.364 ug/L 1 Dimethylphthalate ND 0.182 0.364 ug/L 1 ND 0.182 0.364 Di-n-butylphthalate ug/L 1 Di-n-octyl phthalate ND 0.182 0.364 ug/L 1 Surr: Nitrobenzene-d5 (Surr) Recovery: 76 % Limits: 44-120 % Dilution: 1x 2-Fluorobiphenyl (Surr) 65%44-120 % Phenol-d6 (Surr) 27% 10-133 % p-Terphenyl-d14 (Surr) 72 % 50-134 % 2-Fluorophenol (Surr) 38 % 19-120 % 2,4,6-Tribromophenol (Surr) 87% 43-140 %

Apex Laboratories

Philip Menherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 54 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Analyte Result Limit Units Dilution Amount Result % REC RPD Limit Limits Limit Notes Batch 1041177 - EPA 3510C (Acid Extraction) Water LCS (1041177-BS1) Prepared: 04/30/21 14:40 Analyzed: 05/03/21 22:41 EPA 8270E Acenaphthene 3.00 0.0400 0.0800 ug/L 4 4.00 75 47-122% 0.0400 4 4.00 77 3.10 0.0800 41-130% Acenaphthylene ug/L ---Anthracene 3.18 0.0400 0.0800 ug/L 4 4.00 80 57-123% Benz(a)anthracene 3.28 0.0400 0.0800 4 4.00 82 58-125% ug/L 3.03 0.0600 0.120 4 4.00 76 54-128% Benzo(a)pyrene ug/L 4 4.00 83 53-131% Benzo(b)fluoranthene 3.32 0.0600 0.120 ug/L Benzo(k)fluoranthene 3.33 0.0600 0.120 4 4.00 83 57-129% ug/L 0.0400 0.0800 4 4.00 3.19 80 50-134% Benzo(g,h,i)perylene ug/L Chrysene 3.17 0.0400 0.0800 ug/L 4 4.00 79 59-123% Dibenz(a,h)anthracene 3.31 0.0400 0.0800 ug/L 4 4.00 83 51-134% Fluoranthene 3.28 0.04000.0800 ug/L 4 4.00 82 57-128% 3.09 0.0400 0.0800 4 4.00 77 52-124% Fluorene ug/L 0.0400 Indeno(1,2,3-cd)pyrene 3.19 0.0800ug/L 4 4.00 80 52-134% 3.03 0.0800 0.160 4 4.00 76 41-120% 1-Methylnaphthalene ug/L 2-Methylnaphthalene 2.96 0.08000.160 ug/L 4 4.00 74 40-121% Naphthalene 2.69 0.0800 0.160 ug/L 4 4.00 67 40-121% ------Phenanthrene 3.04 0.04000.0800ug/L 4 4.00 76 59-120% 3.29 0.0400 0.0800 4 4.00 82 57-126% Pyrene ug/L ---Carbazole 3.36 0.06000.120 ug/L 4 4.00 84 60-122% Dibenzofuran 2.94 0.0400 0.0800 ug/L 4 4.00 74 53-120% Bis(2-ethylhexyl)phthalate 3.32 0.800 1.60 ug/L 4 4.00 83 55-135% Butyl benzyl phthalate 3.31 0.800 1.60 ug/L 4 4.00 83 53-134% 0.800 Diethylphthalate 3.25 1.60 ug/L 4 4.00 81 56-125% Dimethylphthalate 3.20 0.800 1.60 ug/L 4 4.00 80 45-127% 3.42 0.800 1.60 4.00 Di-n-butylphthalate ug/L 4 85 59-127% ug/L Di-n-octyl phthalate 3.38 0.800 1.60 4 51-140% Surr: Nitrobenzene-d5 (Surr) Recovery: 82 % Limits: 44-120 % Dilution: 4x 2-Fluorobiphenyl (Surr) 79% 44-120 % Phenol-d6 (Surr) 31% 10-133 % p-Terphenyl-d14 (Surr) 82 % 50-134 % 2-Fluorophenol (Surr) 42 % 19-120 % 43-140 % 2,4,6-Tribromophenol (Surr) 94 %

Apex Laboratories

Philip Menherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 55 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Analyte Result Limit Units Dilution Amount Result % REC Limits RPD Limit Limit Notes Batch 1041177 - EPA 3510C (Acid Extraction) Water LCS Dup (1041177-BSD1) Prepared: 04/30/21 14:40 Analyzed: 05/03/21 23:17 Q-19 EPA 8270E Acenaphthene 3.12 0.0400 0.0800 ug/L 4 4.00 78 47-122% 4 30% 4 4.00 79 2 30% 3.16 0.0400 0.0800 41-130% Acenaphthylene ug/L ---Anthracene 3.24 0.0400 0.0800 ug/L 4 4.00 81 57-123% 2 30% Benz(a)anthracene 3.32 0.0400 0.0800 4 4.00 83 58-125% 30% ug/L 1 3.13 0.0600 0.120 4 4.00 78 54-128% 3 30% Benzo(a)pyrene ug/L 4 4.00 53-131% Benzo(b)fluoranthene 3.35 0.0600 0.120 ug/L 84 1 30% Benzo(k)fluoranthene 3.40 0.0600 0.120 4 4.00 85 57-129% 2 30% ug/L 0.0400 0.0800 4 4.00 78 3.12 50-134% 2 30% Benzo(g,h,i)perylene ug/L Chrysene 3.23 0.0400 0.0800 ug/L 4 4.00 81 59-123% 2 30% Dibenz(a,h)anthracene 3.32 0.0400 0.0800 ug/L 4 4.00 83 51-134% 0.2 30% Fluoranthene 3.44 0.04000.0800 ug/L 4 4.00 86 57-128% 5 30% 3.17 0.0400 0.0800 4 4.00 79 52-124% 3 30% Fluorene ug/L 0.0400 Indeno(1,2,3-cd)pyrene 3.19 0.0800ug/L 4 4.00 80 52-134% 0.05 30% 3.20 0.0800 0.160 4 4.00 80 41-120% 30% 1-Methylnaphthalene ug/L 6 2-Methylnaphthalene 3.21 0.08000.160 ug/L 4 4.00 80 40-121% 8 30% Naphthalene 2.84 0.0800 0.160 ug/L 4 4.00 71 40-121% 6 30% ---Phenanthrene 3.13 0.04000.0800 ug/L 4 4.00 78 59-120% 3 30% 3.42 0.0400 0.0800 4 4.00 86 57-126% 4 30% Pyrene ug/L 3 Carbazole 3.45 0.06000.120 ug/L 4 4.00 86 60-122% 30% Dibenzofuran 3.06 0.0400 0.0800 ug/L 4 4.00 77 53-120% 4 30% Bis(2-ethylhexyl)phthalate 3.30 0.800 1.60 ug/L 4 4.00 82 55-135% 0.6 30% Butyl benzyl phthalate 3.32 0.800 1.60 ug/L 4 4.00 83 53-134% 0.3 30% 0.800 Diethylphthalate 3.31 1.60 ug/L 4 4.00 83 56-125% 2 30% Dimethylphthalate 3.28 0.800 1.60 ug/L 4 4.00 82 45-127% 3 30% 3.45 0.800 1.60 4.00 Di-n-butylphthalate ug/L 4 86 59-127% 0.9 30% ug/L Di-n-octyl phthalate 3.42 0.800 1.60 4 51-140% 30% Surr: Nitrobenzene-d5 (Surr) Recovery: 83 % Limits: 44-120 % Dilution: 4x 44-120 % 2-Fluorobiphenyl (Surr) 75 % Phenol-d6 (Surr) 30 % 10-133 % p-Terphenyl-d14 (Surr) 79% 50-134 % 2-Fluorophenol (Surr) 41% 19-120 % 91% 43-140 % 2,4,6-Tribromophenol (Surr)

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 56 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Batch 1050197 - EPA 3015A Blank (1050197-BLK1) EPA 200.8 Arsenic Cadmium Chromium Mercury	ND ND ND ND ND ND	0.500 0.100 0.500 0.0400 2.00	Prepared: 1.00 0.200 1.00 0.0800 4.00	ug/L ug/L ug/L ug/L	1 1 1 1	Spike Amount	Source Result Wate /21 17:45	% REC	% REC Limits	RPD	RPD Limit	Notes
Blank (1050197-BLK1) EPA 200.8 Arsenic Cadmium Chromium Mercury	ND ND ND	0.100 0.500 0.0400	1.00 0.200 1.00 0.0800	ug/L ug/L ug/L ug/L	1 1 1 1	 	/21 17:45 					
EPA 200.8 Arsenic Cadmium Chromium Mercury	ND ND ND	0.100 0.500 0.0400	1.00 0.200 1.00 0.0800	ug/L ug/L ug/L ug/L	1 1 1 1	 						
Arsenic Cadmium Chromium Mercury	ND ND ND	0.100 0.500 0.0400	0.200 1.00 0.0800	ug/L ug/L ug/L	1 1 1							
Cadmium Chromium Mercury	ND ND ND	0.100 0.500 0.0400	0.200 1.00 0.0800	ug/L ug/L ug/L	1 1 1							
Chromium Mercury	ND ND	0.500 0.0400	1.00 0.0800	ug/L ug/L	1 1							
Mercury	ND	0.0400	0.0800	ug/L	1							
•												
	ND	2.00	4.00	**								
Zinc				ug/L	1							
LCS (1050197-BS1)			Prepared	: 05/06/21	14:53 Anal	lyzed: 05/06/	21 17:50					
EPA 200.8												
Arsenic	57.8	0.500	1.00	ug/L	1	55.6		104	85-115%			
Cadmium	57.0	0.100	0.200	ug/L	1	55.6		103	85-115%			
Chromium	56.6	0.500	1.00	ug/L	1	55.6		102	85-115%			
Mercury	1.13	0.0400	0.0800	ug/L	1	1.11		102	85-115%			
Zinc	57.5	2.00	4.00	ug/L	1	55.6		103	85-115%			
Duplicate (1050197-DUP1)			Prepared	: 05/06/21	14:53 Anal	lyzed: 05/06/	21 18:14					
QC Source Sample: Non-SDG (A1D09	966-08)											
Arsenic	1.69	0.500	1.00	ug/L	1		1.74			3	20%	
Cadmium	ND	0.100	0.200	ug/L	1		ND				20%	
Chromium	4.58	0.500	1.00	ug/L	1		4.51			2	20%	
Mercury	ND	0.0400	0.0800	ug/L	1		ND				20%	
Zinc	25.0	2.00	4.00	ug/L	1		25.1			0.5	20%	
Matrix Spike (1050197-MS1)			Prepared:	: 05/06/21	14:53 Anal	lyzed: 05/06/	21 18:19					
QC Source Sample: Non-SDG (A1D09	966-08)											
EPA 200.8												
Arsenic	59.3	0.500	1.00	ug/L	1	55.6	1.74	104	70-130%			
Cadmium	57.3	0.100	0.200	ug/L	1	55.6	ND	103	70-130%			
Chromium	59.8	0.500	1.00	ug/L	1	55.6	4.51	100	70-130%			
Mercury	1.11	0.0400	0.0800	ug/L	1	1.11	ND	100	70-130%			
Zinc	80.6	2.00	4.00	ug/L	1	55.6	25.1	100	70-130%			
Matrix Spike (1050197-MS2)			Duamana 1	05/06/21	14.52 4 1	lyzed: 05/06/	/21 19-20					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Menherg

Page 57 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1050197 - EPA 3015A							Wat	er				
Matrix Spike (1050197-MS2)			Prepared:	: 05/06/21	14:53 Anal	yzed: 05/06	/21 18:29					
QC Source Sample: Non-SDG (A1	D0967-01)											
EPA 200.8												
Arsenic	58.2	0.500	1.00	ug/L	1	55.6	0.574	104	70-130%			
Cadmium	56.6	0.100	0.200	ug/L	1	55.6	0.106	102	70-130%			
Chromium	59.5	0.500	1.00	ug/L	1	55.6	3.75	100	70-130%			
Mercury	1.12	0.0400	0.0800	ug/L	1	1.11	ND	100	70-130%			
Zinc	260	2.00	4.00	ug/L	1	55.6	205	99	70-130%			

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 58 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS) - Low Level Detection Reporting Spike Source % REC RPD Dilution Analyte Result Limit Units Amount Result % REC Limits RPD Limit Limit Notes Water Batch 1050526 - EPA 3015A Blank (1050526-BLK1) Prepared: 05/14/21 15:03 Analyzed: 05/19/21 16:13 EPA 200.8-LL Arsenic ND 0.0500 0.100 ug/L ND 0.0250 Cadmium 0.0500 ug/L 1 ------------LCS (1050526-BS1) Prepared: 05/14/21 15:03 Analyzed: 05/19/21 16:20 EPA 200.8-LL 5.76 0.0500 Arsenic 0.100 ug/L 1 5.56 104 85-115% 0.02500.0500 5.56 98 Cadmium 5.43 ug/L 1 85-115% **Duplicate (1050526-DUP1)** Prepared: 05/14/21 15:03 Analyzed: 05/19/21 16:55 OC Source Sample: Non-SDG (A1D1024-03) Arsenic 0.426 0.05000.100 ug/L 1 0.426 0.09 20% Cadmium 0.0250 ug/L Q-05 0.0583 0.0500 0.0474 20% 1 21 ------Matrix Spike (1050526-MS1) Prepared: 05/14/21 15:03 Analyzed: 05/19/21 17:02 QC Source Sample: Non-SDG (A1D1024-03) EPA 200.8-LL 0.0500 0.100 5.56 0.426 103 Arsenic 6.13 ug/L 1 70-130% Cadmium 5.62 0.0250 0.0500 ug/L 1 5.56 0.0474 100 70-130%

Apex Laboratories

Philip Memberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 59 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

QUALITY CONTROL (QC) SAMPLE RESULTS

			Solid a	nd Mois	ture Dete	rmination	s					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1040974 - Total Suspen	ded Solids	5					Wat	er				
Blank (1040974-BLK1)			Prepared	: 04/27/21	09:18 Ana	lyzed: 04/29	/21 09:21					
SM 2540 D Total Suspended Solids	ND	5.00	5.00	mg/L	1							
Duplicate (1040974-DUP1)			Prepared	: 04/27/21	09:18 Ana	lyzed: 04/29	/21 09:21					
QC Source Sample: Non-SDG (A1	(D0984-01)											
Total Suspended Solids	ND	5.00	5.00	mg/L	1		ND				10%	
Duplicate (1040974-DUP2)			Prepared	: 04/27/21	09:18 Ana	lyzed: 04/29	/21 09:21					
QC Source Sample: Non-SDG (A1	ID1013-02)											
Total Suspended Solids	ND	5.00	5.00	mg/L	1		ND				10%	
Reference (1040974-SRM1)			Prepared	: 04/27/21	09:18 Ana	lyzed: 04/29	/21 09:21					
SM 2540 D				_								
Total Suspended Solids	945			mg/L	1	951		99	87-116%			

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

SAMPLE PREPARATION INFORMATION

		Diesel an	d/or Oil Hydrocarbor	ns by NWTPH-Dx			
Prep: EPA 3510C (Fu	iels/Acid Ext.)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1041169							
A1D1005-01RE1	Water	NWTPH-Dx	04/24/21 05:45	04/30/21 14:42	1020mL/5mL	1000mL/5mL	0.98
A1D1005-02RE1	Water	NWTPH-Dx	04/24/21 06:15	04/30/21 14:42	1040mL/5mL	1000mL/5mL	0.96
A1D1005-03RE1	Water	NWTPH-Dx	04/24/21 05:50	04/30/21 14:42	1040mL/5mL	1000mL/5mL	0.96

	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx													
Prep: EPA 5030B					Sample	Default	RL Prep							
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor							
Batch: 1041086 A1D1005-01	Water	NWTPH-Gx (MS)	04/24/21 05:45	04/29/21 09:00	5mL/5mL	5mL/5mL	1.00							
Batch: 1041139 A1D1005-02RE1 A1D1005-03RE1	Water Water	NWTPH-Gx (MS) NWTPH-Gx (MS)	04/24/21 06:15 04/24/21 05:50	04/30/21 09:32 04/30/21 09:32	5mL/5mL 5mL/5mL	5mL/5mL 5mL/5mL	1.00 1.00							

	Volatile Organic Compounds by EPA 8260D													
Prep: EPA 5030B					Sample	Default	RL Prep							
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor							
Batch: 1041086														
A1D1005-01	Water	EPA 8260D	04/24/21 05:45	04/29/21 09:00	5mL/5mL	5mL/5mL	1.00							
Batch: 1041139														
A1D1005-02RE1	Water	EPA 8260D	04/24/21 06:15	04/30/21 09:32	5mL/5mL	5mL/5mL	1.00							
A1D1005-03RE1	Water	EPA 8260D	04/24/21 05:50	04/30/21 09:32	5mL/5mL	5mL/5mL	1.00							

		Volatile Orç	ganic Compounds b	y EPA 8260D SIM			
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1041149							
A1D1005-01	Water	EPA 8260D SIM	04/24/21 05:45	04/30/21 11:31	5mL/5mL	5mL/5mL	1.00
A1D1005-02	Water	EPA 8260D SIM	04/24/21 06:15	04/30/21 11:31	5mL/5mL	5mL/5mL	1.00
A1D1005-03	Water	EPA 8260D SIM	04/24/21 05:50	04/30/21 11:31	5mL/5mL	5mL/5mL	1.00
A1D1005-04	Water	EPA 8260D SIM	04/24/21 00:00	04/30/21 11:31	5mL/5mL	5mL/5mL	1.00
A1D1005-05	Water	EPA 8260D SIM	04/24/21 00:00	04/30/21 11:31	5mL/5mL	5mL/5mL	1.00
A1D1005-06	Water	EPA 8260D SIM	04/24/21 00:00	04/30/21 11:31	5mL/5mL	5mL/5mL	1.00

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

SAMPLE PREPARATION INFORMATION

		Volatile O	rganic Compounds b	y EPA 8260D SIM			
		Polych	nlorinated Biphenyls	by EPA 8082A			
Prep: EPA 3510C (I	Neutral pH)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1050125							
A1D1005-01	Water	EPA 8082A	04/24/21 05:45	05/05/21 10:05	1060 mL/2 mL	1000mL/2mL	0.94
A1D1005-02	Water	EPA 8082A	04/24/21 06:15	05/05/21 10:05	1060mL/2mL	1000mL/2mL	0.94
A1D1005-03	Water	EPA 8082A	04/24/21 05:50	05/05/21 10:05	1060 mL/2 mL	1000mL/2mL	0.94
		Semivolat	ile Organic Compour	nds by EPA 8270E			

		Semivolat	tile Organic Compoun	nds by EPA 8270E			
Prep: EPA 3510C (Ac	oid Extraction)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1041137							
A1D1005-01	Water	EPA 8270E	04/24/21 05:45	04/30/21 09:10	1060 mL/1 mL	1000 mL/1 mL	0.94
A1D1005-02RE1	Water	EPA 8270E	04/24/21 06:15	04/30/21 09:10	1030 mL/1 mL	1000 mL/1 mL	0.97
Batch: 1041177							
A1D1005-03RE1	Water	EPA 8270E	04/24/21 05:50	04/30/21 14:40	1030 mL/1 mL	1000mL/1mL	0.97

		Tot	al Metals by EPA 200	.8 (ICPMS)			
Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1050197							
A1D1005-01	Water	EPA 200.8	04/24/21 05:45	05/06/21 14:53	45mL/50mL	45mL/50mL	1.00
A1D1005-02	Water	EPA 200.8	04/24/21 06:15	05/06/21 14:53	45mL/50mL	45mL/50mL	1.00
A1D1005-03	Water	EPA 200.8	04/24/21 05:50	05/06/21 14:53	45mL/50mL	45mL/50mL	1.00

		Total Meta	als by EPA 200.8 (ICI	PMS) - Low Level			
<u>Prep: EPA 3015A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1050526							
A1D1005-01	Water	EPA 200.8-LL	04/24/21 05:45	05/14/21 15:03	45mL/50mL	45mL/50mL	1.00
A1D1005-03	Water	EPA 200.8-LL	04/24/21 05:50	05/14/21 15:03	45mL/50mL	45mL/50mL	1.00

Solid and Moisture Determinations

Apex Laboratories

Philip Newsberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

SAMPLE PREPARATION INFORMATION

		So	lid and Moisture Dete	erminations			
Prep: Total Suspende	ed Solids				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1040974							
A1D1005-01	Water	SM 2540 D	04/24/21 05:45	04/27/21 09:18			NA
A1D1005-02	Water	SM 2540 D	04/24/21 06:15	04/27/21 09:18			NA
A1D1005-03	Water	SM 2540 D	04/24/21 05:50	04/27/21 09:18			NA

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 63 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce Circle Project Number: BCSAmerica-1-02 **Report ID:** Wilsonville, OR 97070 Project Manager: Kyle Haggart A1D1005 - 05 24 21 1104

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex

	Cheff Sumple and Quanty Control (QC) Sumple Quantity Definitions.
x Laborat	<u>ories</u>
C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
E-05	Estimated Result. Initial Calibration Verification (ICV) failed high. No affect on non-detect results.
EST	Result reported as an Estimated Value. Inital Calibration Verification Standard (ICV) failed low
ESTa	Result reported as an Estimated Value. Initial Calibration Verification Standard (ICV) failed low
F-11	The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
F-24	The chromatographic pattern does not resemble the fuel standard used for quantitation. The Diesel result represents carbon range C12 to C24, and the Oil result represents >C24 to C40.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-54	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +10%. The results are reported as Estimated Values.
Q-54a	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +11%. The results are reported as Estimated Values.
Q-54b	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +14%. The results are reported as Estimated Values.
Q-54c	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +17%. The results are reported as Estimated Values.
Q-54d	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +28%. The results are reported as Estimated Values.
Q-54e	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +30%. The results are reported as Estimated Values.
Q-54f	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +31%. The

Apex Laboratories

Philip Nevenberg

Q-54g

Q-54h

results are reported as Estimated Values.

results are reported as Estimated Values.

results are reported as Estimated Values.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 64 of 70 Philip Nerenberg, Lab Director

Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +68%. The

Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +9%. The



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc.	Project: <u>Former Automatic Vending Co.</u>	
9450 SW Commerce Circle	Project Number: BCSAmerica-1-02	Report ID:
Wilsonville, OR 97070	Project Manager: Kyle Haggart	A1D1005 - 05 24 21 1104

Q-54i	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -11%. The results are reported as Estimated Values.
Q-55	Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
Q-56	Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
S-06	Surrogate recovery is outside of established control limits.
T-02	This Batch QC sample was analyzed outside of the method specified 12 hour analysis window. Results are estimated.
V-01	Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 65 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

"---" QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

- -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 66 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 67 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories

Matrix Analysis TNI_ID Analyte TNI_ID Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Philip Nevenberg

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 68 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc.

Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

Company: 6 & DCS in 14		roject Mg	Project Mgr. 1992		tesser+	1			Proje	ct Nar	Project Name: Corum	3		5	Yes	10	Automobic rending	Pro	nject #	M	S.Am	12	Project #: P. S. S. Awer To-1-07	7	
Address: 945 SW COM	COMMOGEL	5.5	>		Pho	Phone: \$0 \$ 965	39		80	7 E	mail:	3	3	\$	1,	3	8787 Email: Kye, hagartonviscom	PO#	41:						
Sampled by: [in Hainly, Kyle	Kyle	#	Hussant	_										ANA	LYSI	S RE(ANALYSIS REQUEST				Ani				
Site Location:											\vdash	1si		_			,8M ,IT ,e	<u> </u>		<u> </u>	-	Η,			
OR WA CA				SAB											(8	(£1)	N SA	TCEL		C.4.c	2 m	c-2.			
AK ID				INIAT			x	X			***************************************				3) elat	etals	8a, Be Fe, Pl K, Se,	.66		~~	.01	201			
	B ID #	TE	ME	OF CON	I-H4TW	I-H4TW	-H4TW	90 BLE	GBB 09	olaH 03:	WIS 04:	imas 07	87 PCB	381 Pest	CBV M	iority M	XO, CL, XO, CL, Sb, 657	OLP Me		150 year		55. Mt4			avid
SAMPLE ID		1 2	1).	-	-		N X	82	-	-	_	-			Я	ч	14 C	102			$\overline{}$	+>	,		Are
SW-2(042421)		200		5	-	×	×		+	1	-	×	X	1	_		∜ ×	+	Y	1 7	\$	(X		+	
112 h2haj dna	_	1		3 -	+-	×			+-	+^	-	X	. ×	1			(×.	+	. 2		4-	1			
5w-1-TB1042421)			E	~	_	-			\top	+	-	\vdash	-					+	-	+					
(12424018T-2-W2			2	~		_				-	×		-	\vdash				+	+	-	-	+			
Dup-18(042421)			\$	2						-	×		_					+		-	-	+	-	-	
									 										+						
										_		-							-					+	
Normal T.	Normal Turn Around Time (TAT) = 10 Business Days	Time (T.	AT) = 10	Busines	s Days	-			1	S	SPECIAL INSTRUCTIONS:	AL IN	STRU	CTIO	NS.			+	-	-	-	-		+	
	1 Day	2	2 Day	3 Day	ay						7	3	~	(ends		3	disvosol	K							
TAT Requested (circle)	4 DAY	51	5 DAY	_	Other:				,																
SAM	SAMPLES ARE HELD FOR 30 DAYS	HELD FO	R 30 DAY	S						Т															
Signature:	Date: 4,24,2	Sig	RECEIVED BY: Signature:	E 1	1	(Date:	1	3	- N	RELINQUISHED BY:	SUISH:	ED BY	e.			Date:	Sign	CEIV	RECEIVED BY: Signature:			Date:		1
Printed Name: Huge of 9	7 4 9	Æ	Printed Name:	2			Time:	W.	2	- 1	Printed Name	vame:					Time:	Prie	Printed Name	me:			Time:		
\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\		3	anbany:	1	. 1					0	Company:	¥.						Ö	Company.						

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Marenberg

Philip Nerenberg, Lab Director

Page 69 of 70



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1D1005 - 05 24 21 1104

1 1 1	
Client: Godesige	Element WO#: A1 NOT
,	ner Artomatic Vending / BLS Americ
	1 @ 9:49 By: 16
	t X ESS FedEx UPS Swift Senvoy SDS Other
	me inspected: 4/24/2/@ 9:49 By: M
Chain of Custody included?	Yes No Custody seals? Yes No No
Signed/dated by client?	Yes No No
Signed/dated by Apex?	
	ooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7
Temperature (°C)	5.3 3.3 4.1
Received on ice? (Y/N)	$\frac{q}{U} - \frac{q}{U} - \frac{q}{U} - \dots - \dots$
Temp. blanks? (Y/N)	$\frac{9}{2}$
Ice type: (Gel/Real/Other)	elle = = = = = = = = = = = = = = = = = =
Cooler out of temp? (YN) Pos	9000
	rm initiated? Yes No ne inspected: 440 By: ACC No Comments:
'in samples indect. Tes1	
Bottle labels/COCs agree? Ye	s_No_X Comments: DUP (042421) The Conts. received, 2703. Sw-2(042421) ID on 18 UP Ambers reals Sw-210421
Bottle labels/COCs agree? Ye	2703. SW-2(042421) ID on 18 UP Ambers reals SW-2104217
Bottle labels/COCs agree? Ye	2703. SW-2(04244) ID on 18 UP Amber's reals SW-210447 Form initiated? Yes No Comments:
Bottle labels/COCs agree? Ye The Coc. This for Coc/container discrepancies for Containers/volumes received a	2703. SW-2(04242) ID on 18 UP Ambers reals SW-2(0425) form initiated? Yes No \(\sum_{\text{oppropriate}} \) sppropriate for analysis? Yes \(\sum_{\text{oppropriate}} \) 14884 Well
Bottle labels/COCs agree? Ye TOC (COC/container discrepancies f Containers/volumes received a	2703. SW-2(04242) ID on 18 UP Ambers reals SW-2(0425) Form initiated? Yes No \(\sum_{\text{appropriate}} \) Repropriate for analysis? Yes \(\sum_{\text{NO}} \) No Comments: adspace? Yes \(\sum_{\text{NO}} \sum_{\text{NO}} \) No \(\sum_{\text{NA}} \) NA
Bottle labels/COCs agree? Ye IF two USC. TESTE COC/container discrepancies ff Containers/volumes received a Do VOA vials have visible heat Comments SW-1-T	2703. Sw-2(04242) ID on 18 UP Ambers reals Sw-210422 Form initiated? Yes No Comments:
Bottle labels/COCs agree? Ye IF two USC. TESTE COC/container discrepancies ff Containers/volumes received a Do VOA vials have visible heat Comments SW-1-T	2703. SW-2(04244) ID on 18 UP Ambers reals SW-2104417 Form initiated? Yes No \(\sum_{\text{appropriate}} \) No \(\sum_{\text{appropriate}} \) No \(\sum_{\text{appropriate}} \) No \(\sum_{\text{appropriate}} \) No \(\sum_{\text{NA}} \) No \(\sum_{\text{NA}} \) No \(\sum_{\text{NA}} \) No \(\sum_{\text{NA}} \)
Bottle labels/COCs agree? Ye IF two USC. TESTE COC/container discrepancies ff Containers/volumes received a Do VOA vials have visible heat Comments SW-1-T	2703. Sw-2(04242) ID on 18 UP Ambers reals Sw-2104222 Form initiated? Yes No Comments: Appropriate for analysis? Yes × No Comments: Assumption Adspace? Yes No × NA B 12 H8 Sw-2-TB 12 H8
Bottle labels/COCs agree? Ye If two (LG). This K COC/container discrepancies f Containers/volumes received a Do VOA vials have visible hea Comments SW-1-T Water samples: pH checked: Y	2703. SW-2(04244) ID on 18 UP Amber's reals SW-2(0444) form initiated? Yes No appropriate for analysis? Yes \(\subseteq \) No adspace? Yes \(\subseteq \) No \(\subseteq \) NA B 22 H8, SW-2-TD 12 H8 Yes \(\subseteq \) NoNA pH appropriate? Yes \(\subseteq \subseteq \) NoNA
Bottle labels/COCs agree? Ye It two Loc. This for COC/container discrepancies of Containers/volumes received a Do VOA vials have visible hear Comments Sw-1-T Water samples: pH checked: Y Comments:	2703. SW-2(04244) ID on 18 UP Amber's reals SW-210444 form initiated? Yes No appropriate for analysis? Yes \(\subsecond No adspace? Yes \(\subsecond No \(\subsecond NA B U2H8, SW-2-TB 12H8 Yes \(\subsecond NA PH appropriate? Yes \(\subsecond No NA
Bottle labels/COCs agree? Ye It two Loc. This for COC/container discrepancies of Containers/volumes received a Do VOA vials have visible hear Comments Sw-1-T Water samples: pH checked: Y Comments:	2703. SW-2(04244) ID on 18 UP Amber's reals SW-2(0444) form initiated? Yes No appropriate for analysis? Yes \(\subseteq \) No adspace? Yes \(\subseteq \) No \(\subseteq \) NA B 22 H8, SW-2-TD 12 H8 Yes \(\subseteq \) NoNA pH appropriate? Yes \(\subseteq \subseteq \) NoNA

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevemberg

Page 70 of 70 $\,$



Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-57689-1 Client Project/Site: A1D1005

For:

Apex Laboratories LLC 6700 SW Sandburg St. Tigard, Oregon 97223

Attn: Philip Nerenberg

Authorized for release by:

5/12/2021 4:51:01 PM Lori Thompson, Project Manager I

(714)895-5494

Lori.Thompson@eurofinset.com

.....LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

2

3

4

9

4 4

12

<u> 13</u>

14

J.

Client: Apex Laboratories LLC Project/Site: A1D1005

Laboratory Job ID: 570-57689-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receipt Checklists	15

2

4

8

9

11

13

14

15

Definitions/Glossary

Client: Apex Laboratories LLC Job ID: 570-57689-1

Project/Site: A1D1005

Qualifiers

GC/MS Semi VOA

Qualifier Qualifier Description

*1 LCS/LCSD RPD exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
--------------	---

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

5

6

9

4

12

13

a E

Eurofins Calscience LLC

Case Narrative

Client: Apex Laboratories LLC
Project/Site: A1D1005

Job ID: 570-57689-1

Job ID: 570-57689-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-57689-1

Comments

No additional comments.

Receipt

The samples were received on 4/28/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7° C.

GC/MS Semi VOA

Method Organotins SIM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-147233 and analytical batch 570-148960 recovered outside control limits for the following analyte: Monobutyltin. Both percent recoveries were within passing QC limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

3

4

5

6

_

9

10

12

10

1

Detection Summary

Job ID: 570-57689-1 Client: Apex Laboratories LLC

Project/Site: A1D1005

Lab Sample ID: 570-57689-1 Client Sample ID: SW-1(042421)

No Detections.

Client Sample ID: SW-2(042421) Lab Sample ID: 570-57689-2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
Dibutyltin	24	2.9	1.7 ng/L	1 Organotins SIM	// Total/NA

Client Sample ID: DUP(042421) Lab Sample ID: 570-57689-3

No Detections.

Client Sample Results

Client: Apex Laboratories LLC Job ID: 570-57689-1 Project/Site: A1D1005

Method: Organotins SIM - Organotins (GC/MS SIM)

Tripentyltin

Client Sample ID: DUP(042421)

Client Sample ID: SW-1(042421) Date Collected: 04/24/21 05:45							Lab Sample ID: 570-57689 Matrix: Wa				
Date Received: 04/28/											
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac		
Tetrabutyltin	ND		3.0	1.9	ng/L		04/30/21 11:09	05/10/21 16:36	1		
Tributyltin	ND		3.0	1.4	ng/L		04/30/21 11:09	05/10/21 16:36	1		
Dibutyltin	ND		3.0	1.8	ng/L		04/30/21 11:09	05/10/21 16:36	1		
Monobutyltin	ND	*1	3.0	2.4	ng/L		04/30/21 11:09	05/10/21 16:36	1		
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac		
Tripentyltin			10 - 120				04/30/21 11:09	05/10/21 16:36	1		

Date Collected: 04/24	l/21 06:15							Matrix	: Water	
Date Received: 04/28	/21 10:30									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Tetrabutyltin	ND		2.9	1.9	ng/L		04/30/21 11:09	05/10/21 16:53	1	
Tributyltin	ND		2.9	1.3	ng/L		04/30/21 11:09	05/10/21 16:53	1	
Dibutyltin	24		2.9	1.7	ng/L		04/30/21 11:09	05/10/21 16:53	1	
Monobutyltin	ND	*1	2.9	2.3	ng/L		04/30/21 11:09	05/10/21 16:53	1	
Surrogate	%Recovery	Qualifier	l imits				Prepared	Analyzed	Dil Fac	

10 - 120

Date Collected: 04/24	4/21 05:50							Matrix	Water
Date Received: 04/28 Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		3.0		ng/L	— <u>-</u>		05/10/21 17:11	1
Tributyltin	ND		3.0	1.4	ng/L		04/30/21 11:09	05/10/21 17:11	1
Dibutyltin	ND		3.0	1.8	ng/L		04/30/21 11:09	05/10/21 17:11	1
Monobutyltin	ND	*1	3.0	2.4	ng/L		04/30/21 11:09	05/10/21 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tripentyltin			10 - 120				04/30/21 11:09	05/10/21 17:11	1

04/30/21 11:09 05/10/21 16:53

Lab Sample ID: 570-57689-3

Surrogate Summary

Client: Apex Laboratories LLC Job ID: 570-57689-1

Project/Site: A1D1005

Method: Organotins SIM - Organotins (GC/MS SIM)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		TPTT	
Lab Sample ID	Client Sample ID	(10-120)	
570-57689-1	SW-1(042421)	60	
570-57689-2	SW-2(042421)	48	
570-57689-3	DUP(042421)	55	
LCS 570-147233/2-A	Lab Control Sample	71	
LCSD 570-147233/3-A	Lab Control Sample Dup	80	
MB 570-147233/1-A	Method Blank	86	
Surrogate Legend			
TPTT = Tripentyltin			

5/12/2021

Page 7 of 15

QC Sample Results

Client: Apex Laboratories LLC Job ID: 570-57689-1 Project/Site: A1D1005

Method: Organotins SIM - Organotins (GC/MS SIM)

Lab Sample ID: MB 570-147233/1-A

Matrix: Water

Analysis Batch: 148960

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 147233

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND ND		3.0	1.9	ng/L		04/30/21 11:09	05/10/21 15:41	1
Tributyltin	ND		3.0	1.4	ng/L		04/30/21 11:09	05/10/21 15:41	1
Dibutyltin	ND		3.0	1.8	ng/L		04/30/21 11:09	05/10/21 15:41	1
Monobutyltin	ND		3.0	2.4	ng/L		04/30/21 11:09	05/10/21 15:41	1

MB MB

MB MB

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed Tripentyltin 10 - 120 04/30/21 11:09 05/10/21 15:41 86

Lab Sample ID: LCS 570-147233/2-A **Client Sample ID: Lab Control Sample**

LCS LCS

Analysis Batch: 148960

Matrix: Water Prep Type: Total/NA

Spike

Prep Batch: 147233

%Rec. Limits

Analyte Added Result Qualifier Unit D %Rec Tetrabutyltin 200 178.5 ng/L 89 21 - 124 Tributyltin 200 132.9 ng/L 66 10 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits Tripentyltin 10 - 120

Lab Sample ID: LCSD 570-147233/3-A

Matrix: Water

Analysis Batch: 148960

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 147233**

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Tetrabutyltin	200	171.8		ng/L		86	21 - 124	4	30
Tributyltin	200	148.8		ng/L		74	10 - 120	11	30

LCSD LCSD

Surrogate %Recovery Qualifier Limits Tripentyltin 80 10 - 120

Eurofins Calscience LLC

5/12/2021

QC Association Summary

Client: Apex Laboratories LLC
Project/Site: A1D1005

Job ID: 570-57689-1

GC/MS Semi VOA

Prep Batch: 147233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-57689-1	SW-1(042421)	Total/NA	Water	Organotin	
570-57689-2	SW-2(042421)	Total/NA	Water	Organotin	
570-57689-3	DUP(042421)	Total/NA	Water	Organotin	
MB 570-147233/1-A	Method Blank	Total/NA	Water	Organotin	
LCS 570-147233/2-A	Lab Control Sample	Total/NA	Water	Organotin	
LCSD 570-147233/3-A	Lab Control Sample Dup	Total/NA	Water	Organotin	

Analysis Batch: 148960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-57689-1	SW-1(042421)	Total/NA	Water	Organotins SIM	147233
570-57689-2	SW-2(042421)	Total/NA	Water	Organotins SIM	147233
570-57689-3	DUP(042421)	Total/NA	Water	Organotins SIM	147233
MB 570-147233/1-A	Method Blank	Total/NA	Water	Organotins SIM	147233
LCS 570-147233/2-A	Lab Control Sample	Total/NA	Water	Organotins SIM	147233
LCSD 570-147233/3-A	Lab Control Sample Dup	Total/NA	Water	Organotins SIM	147233

3

4

6

7

10

11

12

1 4

45

Lab Chronicle

Client: Apex Laboratories LLC Job ID: 570-57689-1

Project/Site: A1D1005

Client Sample ID: SW-1(042421)

Date Collected: 04/24/21 05:45

Lab Sample ID: 570-57689-1 **Matrix: Water**

Date Received: 04/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin			995.3 mL	1 mL	147233	04/30/21 11:09	UWEZ	ECL 1
Total/NA	Analysis	Organotins SIM		1			148960	05/10/21 16:36	AJ2Q	ECL 1
	Instrumer	nt ID: GCMSY								

Client Sample ID: SW-2(042421)

Lab Sample ID: 570-57689-2 Date Collected: 04/24/21 06:15

Matrix: Water

Date Received: 04/28/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin			1028.6 mL	1 mL	147233	04/30/21 11:09	UWEZ	ECL 1
Total/NA	Analysis	Organotins SIM		1			148960	05/10/21 16:53	AJ2Q	ECL 1
	Instrumer	nt ID: GCMSY								

Lab Sample ID: 570-57689-3 Client Sample ID: DUP(042421)

Date Collected: 04/24/21 05:50 **Matrix: Water**

Date Received: 04/28/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin			992.3 mL	1 mL	147233	04/30/21 11:09	UWEZ	ECL 1
Total/NA	Analysis	Organotins SIM		1			148960	05/10/21 17:11	AJ2Q	ECL 1
	Instrumer	nt ID: GCMSY								

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Apex Laboratories LLC Job ID: 570-57689-1 Project/Site: A1D1005

Laboratory: Eurofins Calscience LLC

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
Oregon		NELAP	CA300001	01-30-22
The following analytes the agency does not o		report, but the laboratory is r	not certified by the governing authority	. This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
Organotins SIM	Organotin	Water	Dibutyltin	
Organotins SIM	Organotin	Water	Monobutyltin	
Organotins SIM	Organotin	Water	Tetrabutyltin	
Organotins SIM	Organotin	Water	Tributyltin	
Washington		State	C916-18	10-11-21

Method Summary

Client: Apex Laboratories LLC

Project/Site: A1D1005

Job ID: 570-57689-1

Method	Method Description	Protocol	Laboratory
Organotins SIM	Organotins (GC/MS SIM)	Lab SOP	ECL 1
Organotin	Extraction (Organotins)	WRC	ECL 1

Protocol References:

Lab SOP = Laboratory Standard Operating Procedure
WRC = WRC Notebook 11431-39, ICI America's Western Research Center May, 1989.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

2

5

7

ŏ

1 N

11

13

14

15

Sample Summary

Client: Apex Laboratories LLC Project/Site: A1D1005

Job ID: 570-57689-1

570-57689-2 SW-2(042421) Water 04/24/21 06:15 04/28/21 10:30	Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
	570-57689-1 570-57689-2	SW-1(042421) SW-2(042421)	Water Water			
	570-57689-3	DUP(042421)				

SUBCONTRACT ORDER

Apex Laboratories



obymhi AlD1005

SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 336-0745

Project Manager: Philip Nerenberg **RECEIVING LABORATORY:**

Eurofins CalScience 7440 Lincoln Way

Garden Grove, CA 92841-1427

Phone (714) 895-5494 Fax: (714) 894-7501

Sample Name: SW-1(042421)	34. 4	Water	Sampled:	04/24/21 05:45	(A1D1005-01)
Analysis	Due	Expires		Comments	
TBT, Butyl Tins (4) (Sub)	05/12/21 17:00	05/08/21 05	45		
Containers Supplied:					
(P)1 LAmber Glass - Non Preserved					
(Q)1 LAmber Glass - Non Preserved					
				ID on 1/8 UP Ambers re	ads SW-2(042121).
Sample Name: SW-2(042421)		Water	Sampled:	04/24/21 06:15	(A1D1005-02)
Analysis	Due	Expires		Comments	
TBT, Butyl Tins (4) (Sub)	05/12/21 17:00	05/08/21 06	15		
Containers Supplied:					
(P)1 L Amber Glass - Non Preserved					
(Q)1 L Amber Glass - Non Preserved					

		0-111 011-01 - 1010-111-111-11-11-11-11-11-11-11-11-11-	16 Conts. received, 17 on CoC.					
Sample Name: DUP(042421)		Water	Sampled:	04/24/21 05:50	(A1D1005-03)			
Analysis	Due	Expires		Comments				
TBT, Butyl Tins (4) (Sub)	05/12/21 17:00	05/08/21 05:5	0					
Containers Supplied:								

(O)1 L Amber Glass - Non Preserved

(P)1 L Amber Glass - Non Preserved

Standard TAT

Released By

Released By

Fed Ex (Shipper)

Date

Received By

a Received By

Fed Ex (Shipper)

1-3/1-7 SCF

Page 14 of 15

Login Sample Receipt Checklist

Client: Apex Laboratories LLC Job Number: 570-57689-1

Login Number: 57689 List Source: Eurofins Calscience

List Number: 1

Creator: Patel, Jayesh

oroutor. I utor, ouyour		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

5

6

Я

10

13

14

15

www.capefearanalytical.com



May 06, 2021

Mr. Philip Nerenberg Apex Laboratories 6700 SW Sandburg Street Portland, Oregon 97223

Re: DXN & PCB Subcontract

Work Order: 18042 SDG: A1D1005

Dear Mr. Nerenberg:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on April 28, 2021. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Cyride Larkins

Cynde Larkins Project Manager

Enclosures

SUBCONTRACT ORDER

Apex Laboratories

XXV

Bening 1D1005

CFA WO #18042

SENDING LABORATORY:

Apex Laboratories 6700 S.W. Sandburg Street Tigard, OR 97223

Phone: (503) 718-2323 Fax: (503) 336-0745

Project Manager: Philip Nerenberg

RECEIVING LABORATORY:

Cape Fear Analytical, LLC 3306 Kitty Hawk Rd Suite 120 Wilmington, NC 28405 Phone :(910) 795-0421

Fax: -

Sample Name: SW-1(042421)		Water	Sampled:	04/24/21 05:45	(A1D1005-01)
Analysis	Due	Expires		Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (N)1 LAmber Glass - Non Preserved (O)1 LAmber Glass - Non Preserved	05/12/21 17:00	04/24/22 05:4	45		
Sample Name: SW-2(042421)		Water	Sampled:	ID on 1/8 UP Ambers res 04/24/21 06:15	ads SW-2(042121). (A1D1005-02)
Analysis	Due	Expires		Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (N)1 L Amber Glass - Non Preserved (O)1 L Amber Glass - Non Preserved	05/12/21 17:00	04/24/22 06:	15		
Sample Name: DUP(042421)		Water	Sampled:	16 Conts. received, 17 of 04/24/21 05:50	n CoC. (A1D1005-03
Analysis	Due	Expires		Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (M)1 LAmber Glass - Non Preserved (N)1 LAmber Glass - Non Preserved	05/12/21 17:00	04/24/22 05:	50		
		. / 5 7			

Standard TAT

Released By Date Received By Date

Released By Date

Received By Date

Received By Date

Received By Date

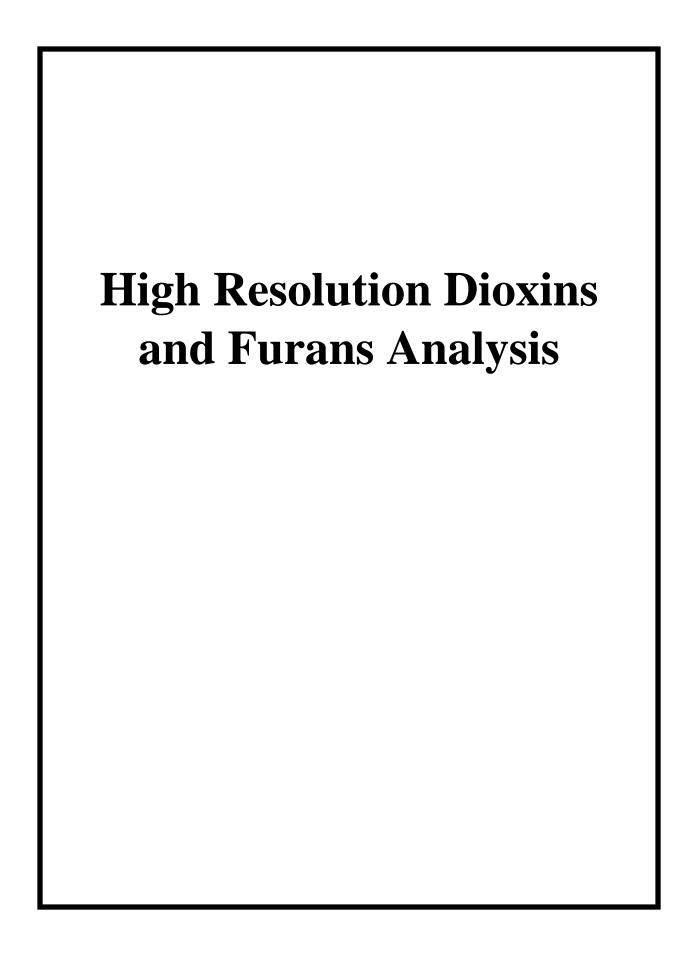
Received By Date

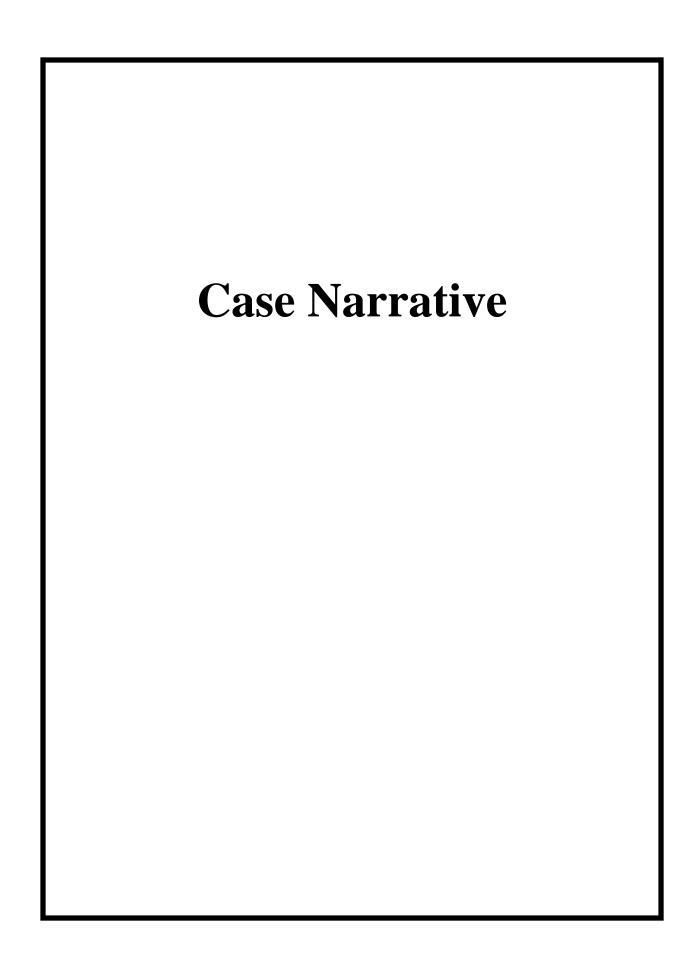
SAMPLE RECEIPT CHECKLIST

Ship	ping Company: FCUR				Date/Time Received: 4/33/31 11:40
	pected Hazard Information	Yes	NA	No	DOE Site Sample Packages Yes NA No
_	pped as DOT Hazardous?			/	Screened <0.5 mR/hr? Samples < 2x background?
sam	ples identified as Foreign Soil?			_	* Notify RSO of any responses in this column immediately.
	Sample Receipt Specifics	Yes	NA	No	Air Witness:
Air s	sample in shipment?			/	-
	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
7	Shipping containers received intact and sealed?	/			seals broken damaged container leaking container other(describe)
2	Custody seal/s present on cooler?			/	Seal intact? Yes No
3	Chain of Custody documents included with shipment?	/			
4	Samples requiring cold preservation within 0-6°C?	/			Preservation Method: Temperature Blank present: Yes (No) Structure Blank present: Yes (No) Temperature
5	Aqueous samples found to have visible solids?	/			all - Min, mul sut, d 5
5	Samples requiring chemical preservation at proper pH?	/			Sample IDs, containers affected and pH observed: (I) - 0 If - 6 If preservative added, Lot#:
7	Samples requiring preservation have no residual chlorine?	/			Sample IDs, containers affected: If preservative added, Lot#:
8	Samples received within holding time?	/			Sample IDs, tests affected:
9	Sample IDs on COC match IDs on containers?	/			Sample IDs, containers affected:
10	Date & time of COC match date & time on containers?	/			Sample IDs, containers affected:
11	Number of containers received match number indicated on COC?	/			VICIUM 6 - 12 MM amber
12	COC form is properly signed in relinquished/received sections?	1			
Cor	mments:				

Page 3 of 27 Work Ofderklis804/2ormed by: Initials: __

Date: _





HDOX Case Narrative Apex Laboratories (APEX) SDG A1D1005 Work Order 18042

Method/Analysis Information

Product: Dioxins/Furans by EPA Method 1613B in Liquids

Analytical Method: EPA Method 1613B

Extraction Method: SW846 3520C

Analytical Batch Number: 46722 Clean Up Batch Number: 46719 Extraction Batch Number: 46718

Sample Analysis

Samples were received at 3.3°C. (18042001,18042002,18042003).

The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12029194	Method Blank (MB)
12029195	Laboratory Control Sample (LCS)
12029196	Laboratory Control Sample Duplicate (LCSD)
18042001	SW-1(042421)
18042002	SW-2(042421)
18042003	DUP(042421)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 20.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Page 6 of 27 Work Order: 18042

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (CCV) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement

The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Receipt Temperature

Samples were received within temperature requirements.

Holding Time Specifications

CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Page 7 of 27 Work Order: 18042

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Nonconformance (NCR) Documentation

A NCR was not required for this SDG.

Manual Integrations

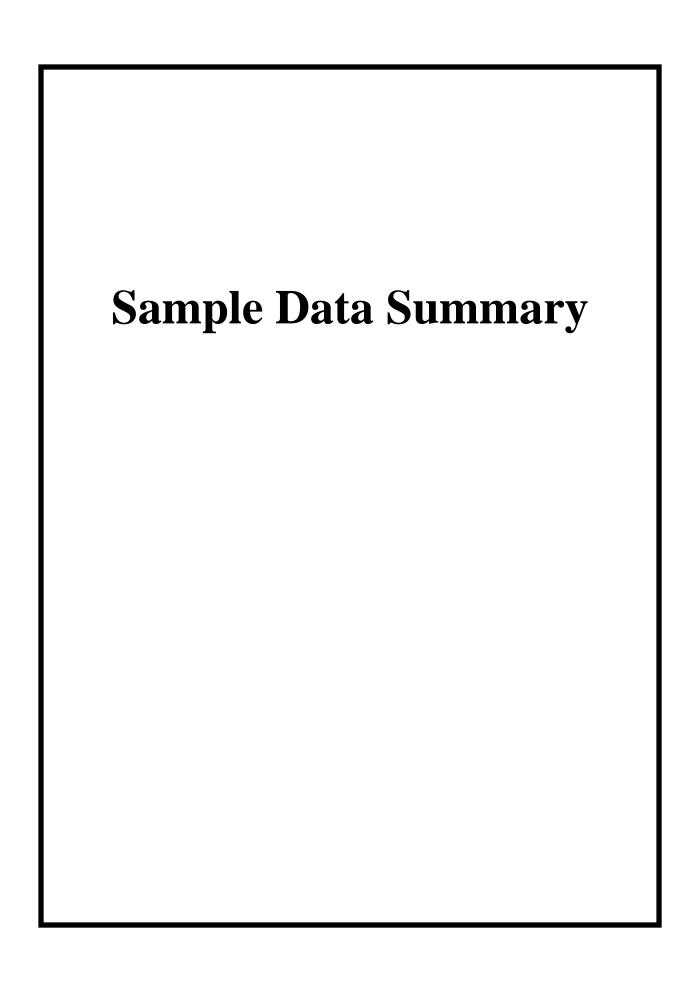
Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP763_1	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Page 8 of 27 Work Order: 18042



Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report for

APEX001 Apex Laboratories

Client SDG: A1D1005 CFA Work Order: 18042

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- K Estimated Maximum Possible Concentration
- U Analyte was analyzed for, but not detected above the specified detection limit.
- DL Indicates that sample is diluted.
- RA Indicates that sample is re-analyzed without re-extraction.
- RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: Suhrie Name: Erin Suhrie

Date: 06 MAY 2021 Title: Data Validator

Page 10 of 27 Work Order: 18042

Page 1

May 6, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

Client: **Date Collected:**

Date Received:

APEX001 04/24/2021 05:45 04/28/2021 11:40 **Project:** Matrix:

APEX00320 WATER

Client Sample: Client ID: Batch ID:

Run Date:

Data File:

SDG Number:

Lab Sample ID:

1613B Water SW-1(042421)

A1D1005

18042001

46722

05/01/2021 01:32 b30apr21a_2-6

Method: EPA Method 1613B **Analyst:** MLL

Prep Basis: As Received **Instrument:** HRP763

1

46718 Prep Batch: **Prep Date:** 29-APR-21

Dilution:

Prep Method:	SW846 3520C
Prep Aliquot:	1029 mL

Prep Date:	29-APR-21	Prep Anquot:	1029 ML			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.02	pg/L	2.02	9.72
40321-76-4	1,2,3,7,8-PeCDD	U	1.68	pg/L	1.68	48.6
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.95	pg/L	2.95	48.6
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.86	pg/L	2.86	48.6
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.93	pg/L	2.93	48.6
35822-46-9	1,2,3,4,6,7,8-HpCDD		63.0	pg/L	10.8	48.6
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1220	pg/L	22.5	97.2
51207-31-9	2,3,7,8-TCDF	U	2.24	pg/L	2.24	9.72
57117-41-6	1,2,3,7,8-PeCDF	U	1.47	pg/L	1.47	48.6
57117-31-4	2,3,4,7,8-PeCDF	U	1.32	pg/L	1.32	48.6
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.26	pg/L	1.26	48.6
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.31	pg/L	1.31	48.6
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.30	pg/L	1.30	48.6
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.10	pg/L	2.10	48.6
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	2.82	pg/L	1.69	48.6
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.62	pg/L	2.62	48.6
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	7.91	pg/L	6.18	97.2
41903-57-5	Total TeCDD	U	2.02	pg/L	2.02	9.72
36088-22-9	Total PeCDD	U	1.68	pg/L	1.68	48.6
34465-46-8	Total HxCDD	U	2.86	pg/L	2.86	48.6
37871-00-4	Total HpCDD		144	pg/L	10.8	48.6
30402-14-3	Total TeCDF	U	2.24	pg/L	2.24	9.72
30402-15-4	Total PeCDF	U	1.32	pg/L	1.32	48.6
55684-94-1	Total HxCDF	JK	3.42	pg/L	1.26	48.6
38998-75-3	Total HpCDF	J	9.39	pg/L	1.69	48.6
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		1.03	pg/L		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		3.96	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1340	1940	pg/L	68.9	(25%-164%)
13C-1,2,3,7,8-PeCDD		1360	1940	pg/L	69.7	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1190	1940	pg/L	61.3	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1350	1940	pg/L	69.2	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1160	1940	pg/L	59.6	(23%-140%)
13C-OCDD		2220	3890	pg/L	57.2	(17%-157%)
13C-2,3,7,8-TCDF		1040	1940	pg/L	53.4	(24%-169%)
13C-1,2,3,7,8-PeCDF		1230	1940	pg/L	63.4	(24%-185%)
13C-2,3,4,7,8-PeCDF		1270	1940	pg/L	65.2	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1150	1940	pg/L	59.2	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1230	1940	pg/L	63.3	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1180	1940	pg/L	61.0	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1170	1940	pg/L	60.0	(29%-147%)

Page 2

May 6, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis

Sample Summary

A1D1005 SDG Number: 18042001 Lab Sample ID: 1613B Water **Client Sample:**

Client: **Date Collected:** Date Received:

APEX001 04/24/2021 05:45 04/28/2021 11:40

Project: Matrix: APEX00320 WATER

Client ID: **Batch ID:**

Run Date:

SW-1(042421) 46722

05/01/2021 01:32

Method: **Analyst:** EPA Method 1613B MLL

Prep Basis:

As Received

Data File: Prep Batch: b30apr21a_2-6 46718

Prep Method:

SW846 3520C

Instrument: Dilution:

HRP763 1

Prep Date: CAS No.

29-APR-21 **Parmname** **Prep Aliquot:** Qual

1029 mL Result

Units **EDL PQL**

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1170	1940	pg/L	60.1	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1170	1940	pg/L	60.1	(26%-138%)
37Cl-2,3,7,8-TCDD		151	194	pg/L	77.5	(35%-197%)

Comments:

Value is estimated J

Estimated Maximum Possible Concentration \mathbf{K}

Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

May 6, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1D1005 SDG Number: 18042002 Lab Sample ID: 1613B Water **Client Sample: Client ID:**

SW-2(042421)

Batch ID: 46722 05/01/2021 02:22 **Run Date:** Data File: b30apr21a_2-7

Prep Batch: 46718 **Prep Date:** 29-APR-21

APEX001 Client: 04/24/2021 06:15 **Date Collected:** 04/28/2021 11:40 Date Received:

Method: EPA Method 1613B **Analyst:** MLL

SW846 3520C **Prep Method:** Prep Aliquot: 1014.3 mL

Project: APEX00320 WATER Matrix:

Prep Basis: As Received

Instrument: HRP763 Dilution: 1

rrep Date:	29-APK-21	Trep Anquot.	1014.5 IIIL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.90	pg/L	1.90	9.86
40321-76-4	1,2,3,7,8-PeCDD	U	2.07	pg/L	2.07	49.3
39227-28-6	1,2,3,4,7,8-HxCDD	U	4.06	pg/L	4.06	49.3
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.79	pg/L	3.79	49.3
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.94	pg/L	3.94	49.3
35822-46-9	1,2,3,4,6,7,8-HpCDD		132	pg/L	14.6	49.3
3268-87-9	1,2,3,4,6,7,8,9-OCDD		2760	pg/L	26.2	98.6
51207-31-9	2,3,7,8-TCDF	U	2.13	pg/L	2.13	9.86
57117-41-6	1,2,3,7,8-PeCDF	U	1.55	pg/L	1.55	49.3
57117-31-4	2,3,4,7,8-PeCDF	U	1.52	pg/L	1.52	49.3
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.96	pg/L	1.96	49.3
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.88	pg/L	1.88	49.3
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.92	pg/L	1.92	49.3
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.82	pg/L	2.82	49.3
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	4.79	pg/L	2.58	49.3
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.79	pg/L	3.79	49.3
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	7.08	pg/L	6.03	98.6
41903-57-5	Total TeCDD	U	1.90	pg/L	1.90	9.86
36088-22-9	Total PeCDD	U	2.07	pg/L	2.07	49.3
34465-46-8	Total HxCDD	JK	16.9	pg/L	3.79	49.3
37871-00-4	Total HpCDD		319	pg/L	14.6	49.3
30402-14-3	Total TeCDF	U	2.13	pg/L	2.13	9.86
30402-15-4	Total PeCDF	JK	2.07	pg/L	1.25	49.3
55684-94-1	Total HxCDF	J	5.76	pg/L	1.88	49.3
38998-75-3	Total HpCDF	J	16.2	pg/L	2.58	49.3
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		2.20	pg/L		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		5.58	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1410	1970	pg/L	71.8	(25%-164%)
13C-1,2,3,7,8-PeCDD		1470	1970	pg/L	74.6	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1260	1970	pg/L	64.1	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1460	1970	pg/L	74.1	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1390	1970	pg/L	70.6	(23%-140%)
13C-OCDD		2680	3940	pg/L	68.0	(17%-157%)
13C-2,3,7,8-TCDF		1160	1970	pg/L	58.9	(24%-169%)
13C-1,2,3,7,8-PeCDF		1380	1970	pg/L	69.8	(24%-185%)
13C-2,3,4,7,8-PeCDF		1390	1970	pg/L	70.7	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1250	1970	pg/L	63.3	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1340	1970	pg/L	68.1	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1350	1970	pg/L	68.5	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1320	1970	pg/L	66.8	(29%-147%)

Page 2

May 6, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis

Sample Summary

A1D1005 SDG Number: 18042002 Lab Sample ID: 1613B Water **Client Sample:**

Client: **Date Collected:** Date Received:

Method:

Analyst:

APEX001 04/24/2021 06:15 04/28/2021 11:40

EPA Method 1613B

Project: Matrix: APEX00320

Prep Basis:

WATER

As Received

Instrument: Dilution:

HRP763 1

SW846 3520C

Prep Method:

Prep Aliquot:

CAS No. **Parmname** Qual

1014.3 mL Result

MLL

Units **EDL PQL**

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1270	1970	pg/L	64.5	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1310	1970	pg/L	66.4	(26%-138%)
37Cl-2,3,7,8-TCDD		155	197	pg/L	78.5	(35%-197%)

Comments:

Client ID:

Batch ID:

Run Date:

Data File:

Prep Batch:

Prep Date:

Value is estimated J

Estimated Maximum Possible Concentration \mathbf{K}

SW-2(042421)

05/01/2021 02:22

b30apr21a_2-7

46722

46718

29-APR-21

Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

May 6, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis

Sample Summary

SDG Number: A1D1005 Lab Sample ID: 18042003 Client Sample: 1613B Water

42003 3B Water Client: AP
Date Collected: 04/
Date Received: 04/

APEX001 04/24/2021 05:50 04/28/2021 11:40 Project: Matrix:

Prep Basis:

APEX00320 WATER

As Received

Client ID: DUP(042421)

Batch ID: 46722 Run Date: 05/01/2021 03:12 Data File: b30apr21a_2-8

46718

29-APR-21

Prep Batch:

Prep Date:

Analyst:

Method:

EPA Method 1613B MLL

Instrument: HRP763 Dilution: 1

Prep Method: SW846 3520C Prep Aliquot: 1012.4 mL

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.98	pg/L	1.98	9.88
40321-76-4	1,2,3,7,8-PeCDD	U	2.27	pg/L	2.27	49.4
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.08	pg/L	3.08	49.4
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.94	pg/L	2.94	49.4
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.02	pg/L	3.02	49.4
35822-46-9	1,2,3,4,6,7,8-HpCDD		69.1	pg/L	10.3	49.4
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1400	pg/L	19.2	98.8
51207-31-9	2,3,7,8-TCDF	U	2.31	pg/L	2.31	9.88
57117-41-6	1,2,3,7,8-PeCDF	U	1.35	pg/L	1.35	49.4
57117-31-4	2,3,4,7,8-PeCDF	U	1.21	pg/L	1.21	49.4
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.52	pg/L	1.52	49.4
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.57	pg/L	1.57	49.4
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.56	pg/L	1.56	49.4
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.37	pg/L	2.37	49.4
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	2.71	pg/L	2.09	49.4
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	3.06	pg/L	3.06	49.4
39001-02-0	1,2,3,4,6,7,8,9-OCDF	JK	8.30	pg/L	6.78	98.8
41903-57-5	Total TeCDD	U	1.98	pg/L	1.98	9.88
36088-22-9	Total PeCDD	U	2.27	pg/L	2.27	49.4
34465-46-8	Total HxCDD	JK	5.91	pg/L	2.94	49.4
37871-00-4	Total HpCDD		157	pg/L	10.3	49.4
30402-14-3	Total TeCDF	U	2.31	pg/L	2.31	9.88
30402-15-4	Total PeCDF	U	1.21	pg/L	1.21	49.4
55684-94-1	Total HxCDF	U	1.52	pg/L	1.52	49.4
38998-75-3	Total HpCDF	JK	11.5	pg/L	2.09	49.4
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		1.14	pg/L		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		4.40	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1340	1980	pg/L	68.1	(25%-164%)
3C-1,2,3,7,8-PeCDD		1430	1980	pg/L	72.4	(25%-181%)
3C-1,2,3,4,7,8-HxCDD		1140	1980	pg/L	57.6	(32%-141%)
C-1,2,3,6,7,8-HxCDD		1270	1980	pg/L	64.2	(28%-130%)
C-1,2,3,4,6,7,8-HpCDD		1190	1980	pg/L	60.5	(23%-140%)
C-OCDD		2230	3950	pg/L	56.4	(17%-157%)
C-2,3,7,8-TCDF		1090	1980	pg/L	55.1	(24%-169%)
-1,2,3,7,8-PeCDF		1330	1980	pg/L	67.2	(24%-185%)
-2,3,4,7,8-PeCDF		1340	1980	pg/L	67.8	(21%-178%)
-1,2,3,4,7,8-HxCDF		1120	1980	pg/L	56.7	(26%-152%)
-1,2,3,6,7,8-HxCDF		1180	1980	pg/L	59.6	(26%-123%)
2,3,4,6,7,8-HxCDF		1170	1980	pg/L	59.0	(28%-136%)
1,2,3,7,8,9-HxCDF		1180	1980	pg/L	59.6	(29%-147%)

Page 2

May 6, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis

Sample Summary

A1D1005 SDG Number: 18042003 Lab Sample ID: 1613B Water Client: **Date Collected:** Date Received:

APEX001 04/24/2021 05:50 04/28/2021 11:40

Project: Matrix:

Prep Basis:

Dilution:

Units

APEX00320 WATER

As Received

1

PQL

Client Sample: Client ID:

DUP(042421)

46718

29-APR-21

46722 05/01/2021 03:12 b30apr21a_2-8

Parmname

Method: **Analyst:**

Qual

EPA Method 1613B MLL

Instrument: HRP763

Prep Method:

SW846 3520C **Prep Aliquot:** 1012.4 mL

EDL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1110	1980	pg/L	56.1	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1190	1980	pg/L	60.1	(26%-138%)
37Cl-2,3,7,8-TCDD		166	198	pg/L	83.9	(35%-197%)

Result

Comments:

Batch ID:

Run Date:

Data File:

Prep Batch:

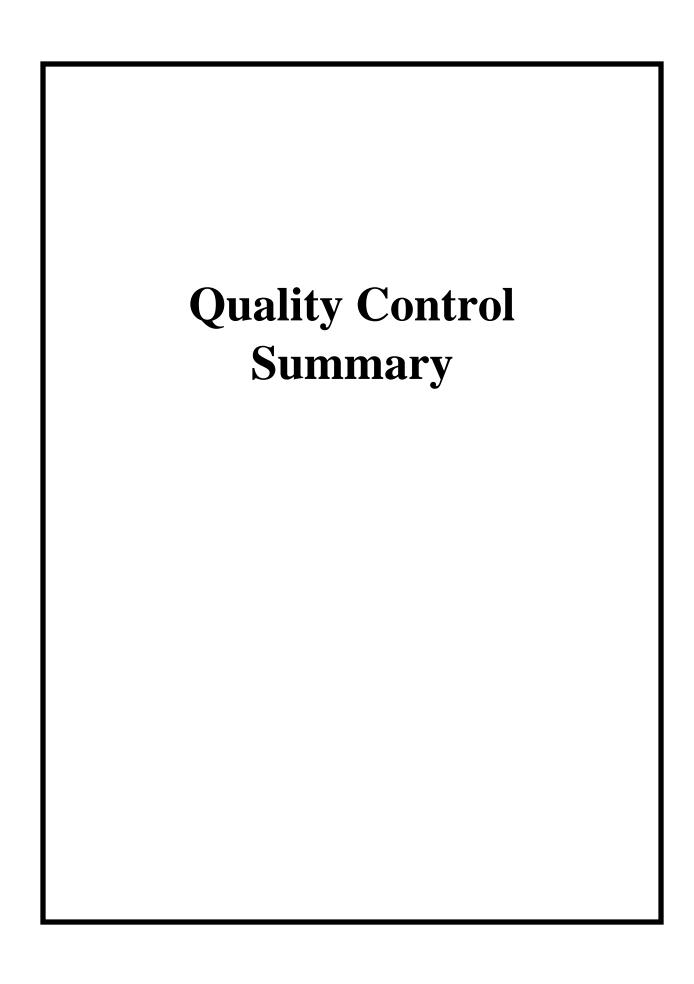
Prep Date:

CAS No.

Value is estimated J

Estimated Maximum Possible Concentration K

Analyte was analyzed for, but not detected above the specified detection limit.



Report Date: May 6, 2021 Page 1

of 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A1D1005 Matrix Type: LIQUID

13C-12.2.3.7.8.PCDD	Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
13C-12.2.3.7.8.PCDD	2029195	LCS for batch 46718	13C-2,3,7,8-TCDD		82.7	(20%-175%)
13C-1.2.3,67.8-HxCDD			13C-1,2,3,7,8-PeCDD		88.5	(21%-227%)
13C-1,2,3,4,6,7,8-HpCDD			13C-1,2,3,4,7,8-HxCDD		75.6	(21%-193%)
13C-OCDD			13C-1,2,3,6,7,8-HxCDD		81.9	(25%-163%)
13C-2.3.7.8-PCDF			13C-1,2,3,4,6,7,8-HpCDD		78.0	(22%-166%)
13C-1,2,3,7,8-PcOF			13C-OCDD		69.8	(13%-199%)
13C-2.3.4.7.8.PcDF			13C-2,3,7,8-TCDF		67.7	(22%-152%)
13C-1,2,3,4,7,8-HxCDF 70,8 (19%-20%) 13C-1,2,3,6,7,8-HxCDF 74,8 (21%-159%) 13C-1,2,3,4,7,8-HxCDF 74,9 (17%-20%) 13C-1,2,3,4,7,8-HxCDF 74,9 (17%-20%) 13C-1,2,3,4,7,8-HxCDF 77,5 (20%-186%) 13C-1,2,3,4,7,8,9-HyCDF 77,5 (20%-186%) 13C-1,2,3,7,8-TCDD 80,7 (20%-175%) 13C-1,2,3,7,8-TCDD 81,5 (21%-275%) 13C-1,2,3,7,8-HxCDD 70,8 (21%-193%) 13C-1,2,3,7,8-HxCDD 70,8 (21%-193%) 13C-1,2,3,4,7,8-HxCDD 70,8 (21%-193%) 13C-1,2,3,4,7,8-HxCDD 75,0 (25%-163%) 13C-1,2,3,4,7,8-HxCDD 75,0 (25%-163%) 13C-1,2,3,4,7,8-HxCDF 75,0 (25%-163%) 13C-2,3,4,7,8-HxCDF 75,2 (21%-192%) 13C-1,2,3,4,7,8-HxCDF 75,2 (21%-192%) 13C-1,2,3,4,7,8-HxCDF 77,1 (13%-328%) 13C-1,2,3,4,7,8-HxCDF 70,3 (17%-20%) 13C-1,2,3,4,7,8-HxCDF 70,3 (17%-20%) 13C-1,2,3,4,7,8-HxCDF 70,0 (21%-158%) 13C-1,2,3,4,7,8-HxCDD 70,0 (25%-164%) 13C-1,2,3,4,7,8-HxCDF 70,0 (25%-164%) 13C-1,2,3,4,7,8-HxCDF 70,0 (21%-157%) 13C-1,2,3,4,7,8-HxCDF 70,0 (25%-164%) 13C-1,2,3			13C-1,2,3,7,8-PeCDF		81.0	(21%-192%)
18C-1_2_3_6_7_8-HxCDF			13C-2,3,4,7,8-PeCDF		84.7	(13%-328%)
18C-1,2,3,4,6,7,8-HxCDF			13C-1,2,3,4,7,8-HxCDF		70.8	(19%-202%)
13C-1,2,3,7,8-HpCDF			13C-1,2,3,6,7,8-HxCDF		74.8	(21%-159%)
13C-1_2,3,4,6,7,8-HpCDF			13C-2,3,4,6,7,8-HxCDF		76.6	(22%-176%)
13C-1,2,3,7,8,9-HpCDF 77.5			13C-1,2,3,7,8,9-HxCDF		74.9	(17%-205%)
29196 LCSD for batch 46718 13C-2,3,7,8-TCDD 80.7 (20%-175%) 13C-1,2,3,7,8-HCDD 81.5 (21%-227%) 13C-1,2,3,4,7,8-HxCDD 78.0 (25%-165%) 13C-1,2,3,4,7,8-HxCDD 78.0 (25%-165%) 13C-1,2,3,4,6,7,8-HpCDD 75.0 (22%-165%) 13C-0,2,7,8-TCDF 63.9 (22%-152%) 13C-1,2,3,7,8-PCDF 77.1 (13%-328%) 13C-1,2,3,7,8-PCDF 77.1 (13%-328%) 13C-1,2,3,7,8-HxCDF 70.3 (21%-159%) 13C-1,2,3,4,7,8-HxCDF 70.3 (21%-195%) 13C-1,2,3,4,7,8-HxCDF 70.3 (21%-159%) 13C-1,2,3,4,6,7,8-HpCDF 70.0 (21%-159%) 13C-1,2,3,4,6,7,8-HpCDF 70.0 (21%-159%) 13C-1,2,3,4,6,7,8-HpCDF 70.0 (21%-158%) 13C-1,2,3,4,7,8-HxCDF 70.0 (21%-158%) 13C-1,2,3,4,7,8-HxCDF 70.0 (21%-158%) 13C-1,2,3,4,7,8-HxCDF 70.0 (21%-158%) 13C-1,2,3,4,7,8-HxCDF 70.0 (21%-158%) 13C-1,2,3,4,7,8-HxCDD 70.0 (21%-158%) 13C-1,2,3,4,7,8-HxCDD 70.0 (25%-164%) 13C-1,2,3,4,7,8-HxCDD 75.9 (26%-181%) 13C-1,2,3,4,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,7,8-HxCDF 75.4 (24%-165%) 13C-1,2,3,4,7,8-HxCDF 75.4 (24%-185%) 13C-1,2,3,4,7,8-HxCDF 70.1 (28%-135%) 13C-1,2,3,4,7,8-Hx			13C-1,2,3,4,6,7,8-HpCDF		72.1	(21%-158%)
29196 LCSD for batch 46718 13C-2,3,7,8-TCDD 81.5 (21%-227%) 13C-1,2,3,47,8-HxCDD 70.8 (21%-227%) 13C-1,2,3,47,8-HxCDD 78.0 (25%-163%) 13C-1,2,3,46,7,8-HpCDD 75.0 (22%-165%) 13C-0CDD 72.5 (13%-199%) 13C-2,3,7,8-PCDF 75.2 (21%-192%) 13C-2,3,7,8-PCDF 75.2 (21%-192%) 13C-1,2,3,7,8-PCDF 75.1 (13%-328%) 13C-1,2,3,47,8-HxCDF 70.3 (21%-155%) 13C-1,2,3,47,8-HxCDF 70.3 (21%-155%) 13C-1,2,3,4,6,7,8-HxCDF 70.3 (17%-205%) 13C-1,2,3,4,6,7,8-HxCDF 70.3 (17%-205%) 13C-1,2,3,4,7,8-HxCDF 70.0 (21%-158%) 13C-1,2,3,4,7,8-HxCDF 70.0 (21%-158%) 13C-1,2,3,4,7,8-HxCDF 70.0 (21%-158%) 13C-1,2,3,4,7,8-HxCDF 70.0 (21%-158%) 13C-1,2,3,4,7,8-HxCDD 70.0 (21%-158%) 13C-1,2,3,4,7,8-HxCDD 70.0 (25%-164%) 13C-1,2,3,4,7,8-HxCDD 70.0 (25%-164%) 13C-1,2,3,4,7,8-HxCDD 70.0 (25%-164%) 13C-1,2,3,7,8-HxCDD 70.0 (25%-164%) 13C-1,2,3,7,8-HxCDD 70.0 (25%-164%) 13C-1,2,3,7,8-HxCDD 70.0 (25%-164%) 13C-1,2,3,7,8-HxCDD 70.0 (25%-164%) 13C-1,2,3,4,7,8-HxCDD 70.0 (25%-165%) 13C-1,2,3,4,7,8-HxCDF 70.0 (26%-125%) 13C-1			13C-1,2,3,4,7,8,9-HpCDF		77.5	(20%-186%)
13C-1,2,3,7,8-PcDD			37Cl-2,3,7,8-TCDD		86.6	(31%-191%)
13C-1,2,3,4,7,8-HxCDD	2029196	LCSD for batch 46718	13C-2,3,7,8-TCDD		80.7	(20%-175%)
13C-1,2,3,6,7,8-HxCDD			13C-1,2,3,7,8-PeCDD		81.5	(21%-227%)
13C-1,2,3,4,6,7,8-HpCDD			13C-1,2,3,4,7,8-HxCDD		70.8	(21%-193%)
13C-OCDD 13C-2,3,7,8-TCDF 13C-1,2,3,7,8-TCDF 13C-1,2,3,7,8-PCDF 13C-1,2,3,7,8-PCDF 13C-1,2,3,4,7,8-PCDF 13C-1,2,3,4,7,8-PCDF 13C-1,2,3,4,7,8-PCDF 13C-1,2,3,4,7,8-PCDF 13C-1,2,3,4,6,7,8-HxCDF 13C-1,2,3,4,6,7,8-HxCDF 13C-1,2,3,4,6,7,8-HxCDF 13C-1,2,3,4,6,7,8-HxCDF 13C-1,2,3,4,6,7,8-HyCDF 13C-1,2,3,4,6,7,8-PCDD 13C-1,2,3,7,8-TCDD 29.7 MB for batch 46718 13C-1,2,3,7,8-TCDD 29.7 MB for batch 46718 13C-1,2,3,7,8-PCDD 29.7 MB for batch 46718 13C-1,2,3,7,8-PCDD 29.7 13C-1,2,3,4,7,8-HxCDD 29.7 13C-1,2,3,4,7,8-HxCDD 29.7 13C-1,2,3,4,7,8-HxCDD 29.7 13C-1,2,3,4,7,8-HxCDD 29.7 13C-1,2,3,4,7,8-PCDD 29.7 13C-1,2,3,4,7,8-PCDD 29.7 13C-1,2,3,4,7,8-PCDD 29.7 13C-1,2,3,4,7,8-PCDD 29.7 13C-1,2,3,4,7,8-PCDB 29.8 13C-1,2,3,4,7,8-PCDF 29.9 13C-1,2,3,4,6,7,8-PCDF 29.9 29.9 29.9 20.10%-13%-0.0 20.9 20			13C-1,2,3,6,7,8-HxCDD		78.0	(25%-163%)
13C-2,3,7,8-TCDF 63.9 (22%-152%) 13C-1,2,3,7,8-PeCDF 75.2 (21%-192%) 13C-1,2,3,7,8-PeCDF 75.2 (21%-192%) 13C-2,3,4,7,8-PeCDF 77.1 (13%-328%) 13C-1,2,3,4,7,8-HxCDF 66.3 (19%-202%) 13C-1,2,3,4,7,8-HxCDF 70.3 (21%-159%) 13C-1,2,3,4,6,7,8-HxCDF 70.3 (21%-159%) 13C-1,2,3,4,6,7,8-HyCDF 70.0 (21%-158%) 13C-1,2,3,4,6,7,8-HyCDF 70.0 (21%-158%) 13C-1,2,3,4,7,8-PeCDD 72.5 (20%-186%) 37C1-2,3,7,8-TCDD 92.7 (31%-191%) 29194 MB for batch 46718 13C-2,3,7,8-TCDD 79.0 (25%-164%) 13C-1,2,3,4,7,8-HxCDD 79.0 (25%-181%) 13C-1,2,3,4,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,6,7,8-HyCDD 75.9 (28%-130%) 13C-1,2,3,4,6,7,8-HyCDD 69.1 (23%-141%) 13C-0,2,7,8-TCDF 63.9 (24%-169%) 13C-2,3,7,8-PeCDF 75.4 (24%-185%) 13C-1,2,3,4,7,8-PeCDF 75.4 (24%-185%) 13C-1,2,3,4,7,8-HxCDF 75.4 (24%-185%) 13C-1,2,3,4,7,8-HxCDF 70.1 (28%-133%) 13C-1,2,3,4,7,8-HxCDF 70.1 (28%-133%) 13C-1,2,3,4,7,8-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,7,8-HyCDF 70.8 (29%-147%) 13C-1,2,3,4,7,8-HyCDF 70.6 (26%-123%) 13C-1,2,3,4,7,8-HyCDF 70.6 (26%-123%) 13C-1,2,3,4,7,8-HyCDF 70.6 (26%-138%)			13C-1,2,3,4,6,7,8-HpCDD		75.0	(22%-166%)
13C-1,2,3,7,8-PeCDF			13C-OCDD		72.5	(13%-199%)
13C-2,3,4,7,8-PeCDF 77.1 (13%-328%) 13C-1,2,3,4,7,8-HxCDF 66.3 (19%-202%) 13C-1,2,3,4,7,8-HxCDF 70.3 (21%-159%) 13C-1,2,3,4,6,7,8-HxCDF 72.4 (22%-176%) 13C-1,2,3,4,6,7,8-HxCDF 70.3 (17%-205%) 13C-1,2,3,4,6,7,8-HpCDF 70.0 (21%-158%) 13C-1,2,3,4,6,7,8-HpCDF 72.5 (20%-186%) 13C-1,2,3,7,8-PeCDD 79.0 (25%-164%) 13C-1,2,3,7,8-PeCDD 81.7 (25%-181%) 13C-1,2,3,4,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,6,7,8-HpCDD 69.1 (23%-141%) 13C-1,2,3,4,7,8-HxCDD 75.9 (28%-130%) 13C-2,3,7,8-PeCDF 75.4 (24%-165%) 13C-2,3,3,7,8-PeCDF 75.4 (24%-165%) 13C-1,2,3,4,7,8-HxCDF 75.4 (24%-165%) 13C-1,2,3,4,7,8-HxCDF 75.4 (24%-165%) 13C-1,2,3,4,7,8-HxCDF 76.9 (26%-152%) 13C-1,2,3,4,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,4,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,4,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,4,7,8-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,7,8-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,7,8-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,7,8-HxCDF 70.6 (26%-138%) 13C-1,2,3,4,7,8-HxCDF 70.6 (26%-138%) 13C-1,2,3,4,7,8-HyCDF 70.6 (26%-138%)			13C-2,3,7,8-TCDF		63.9	(22%-152%)
13C-1,2,3,4,7,8-HxCDF			13C-1,2,3,7,8-PeCDF		75.2	(21%-192%)
13C-1,2,3,6,7,8-HxCDF			13C-2,3,4,7,8-PeCDF		77.1	(13%-328%)
13C-2,3,4,6,7,8-HxCDF 72.4 (22%-176%) 13C-1,2,3,7,8,9-HxCDF 70.3 (17%-205%) 13C-1,2,3,4,6,7,8-HpCDF 70.0 (21%-158%) 13C-1,2,3,4,6,7,8-HpCDF 72.5 (20%-186%) 37C1-2,3,7,8-TCDD 92.7 (31%-191%) 29194 MB for batch 46718 13C-2,3,7,8-TCDD 79.0 (25%-164%) 13C-1,2,3,7,8-PcCDD 81.7 (25%-181%) 13C-1,2,3,4,6,7,8-HxCDD 79.0 (25%-164%) 13C-1,2,3,4,6,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,6,7,8-HpCDD 75.9 (28%-130%) 13C-0,2,3,7,8-TCDF 63.9 (24%-169%) 13C-2,3,7,8-TCDF 63.9 (24%-169%) 13C-1,2,3,7,8-PeCDF 75.4 (24%-185%) 13C-2,3,7,8-PeCDF 78.9 (21%-178%) 13C-1,2,3,7,8-PeCDF 78.9 (21%-178%) 13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,4,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,4,6,7,8-HxCDF 70.6 (26%-123%) 13C-1,2,3,4,6,7,8-HxCDF 70.6 (26%-123%) 13C-1,2,3,4,6,7,8-HxCDF 70.6 (26%-138%) 13C-1,2,3,4,7,8-HxCDF 70.6 (26%-138%) 13C-1,2,3,4,7,8-HyCDF 70.6 (26%-138%) 13C-1,2,3,7,8-TCDD 88.2 (35%-197%)			13C-1,2,3,4,7,8-HxCDF		66.3	(19%-202%)
13C-2,3,4,6,7,8-HxCDF 72.4 (22%-176%) 13C-1,2,3,7,8,9-HxCDF 70.3 (17%-205%) 13C-1,2,3,4,6,7,8-HpCDF 70.0 (21%-158%) 13C-1,2,3,4,6,7,8-HpCDF 72.5 (20%-186%) 37C1-2,3,7,8-TCDD 92.7 (31%-191%) 29194 MB for batch 46718 13C-2,3,7,8-TCDD 79.0 (25%-164%) 13C-1,2,3,7,8-PcCDD 81.7 (25%-181%) 13C-1,2,3,4,6,7,8-HxCDD 79.0 (25%-164%) 13C-1,2,3,4,6,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,6,7,8-HpCDD 75.9 (28%-130%) 13C-0,2,3,7,8-TCDF 63.9 (24%-169%) 13C-2,3,7,8-TCDF 63.9 (24%-169%) 13C-1,2,3,7,8-PeCDF 75.4 (24%-185%) 13C-2,3,7,8-PeCDF 78.9 (21%-178%) 13C-1,2,3,7,8-PeCDF 78.9 (21%-178%) 13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,4,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,4,6,7,8-HxCDF 70.6 (26%-123%) 13C-1,2,3,4,6,7,8-HxCDF 70.6 (26%-123%) 13C-1,2,3,4,6,7,8-HxCDF 70.6 (26%-138%) 13C-1,2,3,4,7,8-HxCDF 70.6 (26%-138%) 13C-1,2,3,4,7,8-HyCDF 70.6 (26%-138%) 13C-1,2,3,7,8-TCDD 88.2 (35%-197%)			13C-1,2,3,6,7,8-HxCDF		70.3	(21%-159%)
13C-1,2,3,4,6,7,8-HpCDF 70.0 (21%-158%) 13C-1,2,3,4,7,8,9-HpCDF 72.5 (20%-186%) 37C1-2,3,7,8-TCDD 92.7 (31%-191%) 29194 MB for batch 46718 13C-2,3,7,8-TCDD 79.0 (25%-164%) 13C-1,2,3,7,8-PeCDD 81.7 (25%-181%) 13C-1,2,3,4,7,8-HxCDD 67.4 (32%-141%) 13C-1,2,3,4,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,7,8-HxCDD 69.1 (23%-140%) 13C-0CDD 66.2 (17%-157%) 13C-2,3,7,8-TCDF 63.9 (24%-169%) 13C-1,2,3,7,8-PeCDF 75.4 (24%-185%) 13C-2,3,4,7,8-PeCDF 75.4 (24%-185%) 13C-2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,4,7,8-HxCDF 67.9 (26%-123%) 13C-1,2,3,4,7,8-HxCDF 67.9 (26%-123%) 13C-1,2,3,4,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,4,7,8-HxCDF 70.8 (29%-147%) 13C-1,2,3,7,8-HxCDF 70.8 (29%-147%) 13C-1,2,3,7,8-HxCDF 70.6 (26%-138%) 13C-1,2,3,4,7,8-HpCDF 70.6 (26%-138%) 13C-1,2,3,4,7,8-HpCDF 70.6 (26%-138%) 13C-1,2,3,4,7,8-HpCDF 70.6 (26%-138%) 37C1-2,3,7,8-TCDD 88.2 (35%-197%)			13C-2,3,4,6,7,8-HxCDF		72.4	
13C-1,2,3,4,7,8,9-HpCDF 37Cl-2,3,7,8-TCDD 29194 MB for batch 46718 13C-2,3,7,8-TCDD 29194 MB for batch 46718 13C-2,3,7,8-TCDD 29194 MB for batch 46718 13C-1,2,3,4,7,8-HxCDD 29195 Start Star			13C-1,2,3,7,8,9-HxCDF		70.3	(17%-205%)
37Cl-2,3,7,8-TCDD 29194 MB for batch 46718 13C-2,3,7,8-TCDD 79.0 (25%-164%) 13C-1,2,3,7,8-PeCDD 81.7 (25%-181%) 13C-1,2,3,4,7,8-HxCDD 67.4 (32%-141%) 13C-1,2,3,6,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,6,7,8-HpCDD 66.2 (17%-157%) 13C-2,3,7,8-TCDF 63.9 (24%-169%) 13C-1,2,3,7,8-PeCDF 75.4 (24%-185%) 13C-1,2,3,4,7,8-PeCDF 75.4 (24%-185%) 13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 63.9 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,4,6,7,8-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 70.8 (29%-147%) 13C-1,2,3,4,7,8-PpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-1,2,3,4,6,7,8-HpCDF		70.0	(21%-158%)
37Cl-2,3,7,8-TCDD 92.7 (31%-191%) 29194 MB for batch 46718 13C-2,3,7,8-TCDD 79.0 (25%-164%) 13C-1,2,3,7,8-PeCDD 81.7 (25%-181%) 13C-1,2,3,4,7,8-HxCDD 67.4 (32%-141%) 13C-1,2,3,6,7,8-HxCDD 75.9 (28%-130%) 13C-0,2,3,4,6,7,8-HpCDD 69.1 (23%-140%) 13C-0CDD 66.2 (17%-157%) 13C-0CDD 66.2 (17%-157%) 13C-2,3,7,8-PeCDF 75.4 (24%-185%) 13C-1,2,3,7,8-PeCDF 75.4 (24%-185%) 13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 67.9 (26%-123%) 13C-1,2,3,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,4,6,7,8-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 70.6 (26%-138%) 37Cl-2,3,4,7,8-PCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-1,2,3,4,7,8,9-HpCDF		72.5	(20%-186%)
13C-1,2,3,7,8-PeCDD 81.7 (25%-181%) 13C-1,2,3,4,7,8-HxCDD 67.4 (32%-141%) 13C-1,2,3,6,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,6,7,8-HpCDD 69.1 (23%-140%) 13C-OCDD 66.2 (17%-157%) 13C-2,3,7,8-TCDF 63.9 (24%-169%) 13C-1,2,3,7,8-PeCDF 75.4 (24%-185%) 13C-2,3,4,7,8-PeCDF 78.9 (21%-178%) 13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 67.9 (26%-123%) 13C-2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,7,8,9-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37C1-2,3,7,8-TCDD 88.2 (35%-197%)					92.7	(31%-191%)
13C-1,2,3,4,7,8-HxCDD 67.4 (32%-141%) 13C-1,2,3,6,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,6,7,8-HpCDD 69.1 (23%-140%) 13C-OCDD 66.2 (17%-157%) 13C-2,3,7,8-TCDF 63.9 (24%-169%) 13C-1,2,3,7,8-PeCDF 75.4 (24%-185%) 13C-2,3,4,7,8-PeCDF 78.9 (21%-178%) 13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 67.9 (26%-123%) 13C-2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,7,8,9-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37C1-2,3,7,8-TCDD 88.2 (35%-197%)	2029194	MB for batch 46718	13C-2,3,7,8-TCDD		79.0	(25%-164%)
13C-1,2,3,6,7,8-HxCDD 75.9 (28%-130%) 13C-1,2,3,4,6,7,8-HpCDD 69.1 (23%-140%) 13C-OCDD 66.2 (17%-157%) 13C-2,3,7,8-TCDF 63.9 (24%-169%) 13C-1,2,3,7,8-PeCDF 75.4 (24%-185%) 13C-2,3,4,7,8-PeCDF 78.9 (21%-178%) 13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 67.9 (26%-123%) 13C-1,2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,7,8,9-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-1,2,3,7,8-PeCDD		81.7	(25%-181%)
13C-1,2,3,4,6,7,8-HpCDD69.1(23%-140%)13C-OCDD66.2(17%-157%)13C-2,3,7,8-TCDF63.9(24%-169%)13C-1,2,3,7,8-PeCDF75.4(24%-185%)13C-2,3,4,7,8-PeCDF78.9(21%-178%)13C-1,2,3,4,7,8-HxCDF63.8(26%-152%)13C-1,2,3,6,7,8-HxCDF67.9(26%-123%)13C-2,3,4,6,7,8-HxCDF70.1(28%-136%)13C-1,2,3,7,8-HxCDF70.8(29%-147%)13C-1,2,3,4,6,7,8-HpCDF65.5(28%-143%)13C-1,2,3,4,7,8,9-HpCDF70.6(26%-138%)37Cl-2,3,7,8-TCDD88.2(35%-197%)			13C-1,2,3,4,7,8-HxCDD		67.4	(32%-141%)
13C-OCDD 66.2 (17%-157%) 13C-2,3,7,8-TCDF 63.9 (24%-169%) 13C-1,2,3,7,8-PCDF 75.4 (24%-185%) 13C-2,3,4,7,8-PCDF 78.9 (21%-178%) 13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 67.9 (26%-123%) 13C-2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,7,8,9-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-1,2,3,6,7,8-HxCDD		75.9	(28%-130%)
13C-2,3,7,8-TCDF 63.9 (24%-169%) 13C-1,2,3,7,8-PeCDF 75.4 (24%-185%) 13C-2,3,4,7,8-PeCDF 78.9 (21%-178%) 13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 67.9 (26%-123%) 13C-2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,7,8,9-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)					69.1	(23%-140%)
13C-1,2,3,7,8-PeCDF 75.4 (24%-185%) 13C-2,3,4,7,8-PeCDF 78.9 (21%-178%) 13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 67.9 (26%-123%) 13C-2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,7,8-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-OCDD		66.2	(17%-157%)
13C-2,3,4,7,8-PeCDF 78.9 (21%-178%) 13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 67.9 (26%-123%) 13C-2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,7,8,9-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-2,3,7,8-TCDF		63.9	(24%-169%)
13C-1,2,3,4,7,8-HxCDF 63.8 (26%-152%) 13C-1,2,3,6,7,8-HxCDF 67.9 (26%-123%) 13C-2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,7,8,9-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-1,2,3,7,8-PeCDF		75.4	(24%-185%)
13C-1,2,3,6,7,8-HxCDF 67.9 (26%-123%) 13C-2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,7,8,9-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-2,3,4,7,8-PeCDF		78.9	(21%-178%)
13C-2,3,4,6,7,8-HxCDF 70.1 (28%-136%) 13C-1,2,3,7,8,9-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-1,2,3,4,7,8-HxCDF		63.8	(26%-152%)
13C-1,2,3,7,8,9-HxCDF 70.8 (29%-147%) 13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-1,2,3,6,7,8-HxCDF		67.9	(26%-123%)
13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-2,3,4,6,7,8-HxCDF		70.1	(28%-136%)
13C-1,2,3,4,6,7,8-HpCDF 65.5 (28%-143%) 13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-1,2,3,7,8,9-HxCDF		70.8	(29%-147%)
13C-1,2,3,4,7,8,9-HpCDF 70.6 (26%-138%) 37Cl-2,3,7,8-TCDD 88.2 (35%-197%)			13C-1,2,3,4,6,7,8-HpCDF		65.5	
37Cl-2,3,7,8-TCDD 88.2 (35%-197%)						, ,
42001 SW-1(042421) 13C-2,3,7,8-TCDD 68.9 (25%-164%)			•		88.2	(35%-197%)
	8042001	SW-1(042421)	13C-2,3,7,8-TCDD		68.9	(25%-164%)

of 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A1D1005 Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
8042001	SW-1(042421)	13C-1,2,3,7,8-PeCDD		69.7	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		61.3	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		69.2	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		59.6	(23%-140%)
		13C-OCDD		57.2	(17%-157%)
		13C-2,3,7,8-TCDF		53.4	(24%-169%)
		13C-1,2,3,7,8-PeCDF		63.4	(24%-185%)
		13C-2,3,4,7,8-PeCDF		65.2	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		59.2	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		63.3	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		61.0	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		60.0	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		60.1	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		60.1	(26%-138%)
		37Cl-2,3,7,8-TCDD		77.5	(35%-197%)
042002	SW-2(042421)	13C-2,3,7,8-TCDD		71.8	(25%-164%)
		13C-1,2,3,7,8-PeCDD		74.6	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		64.1	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		74.1	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		70.6	(23%-140%)
		13C-OCDD		68.0	(17%-157%)
		13C-2,3,7,8-TCDF		58.9	(24%-169%)
		13C-1,2,3,7,8-PeCDF		69.8	(24%-185%)
		13C-2,3,4,7,8-PeCDF		70.7	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		63.3	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		68.1	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		68.5	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		66.8	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		64.5	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		66.4	(26%-138%)
		37Cl-2,3,7,8-TCDD		78.5	(35%-197%)
042003	DUP(042421)	13C-2,3,7,8-TCDD		68.1	(25%-164%)
		13C-1,2,3,7,8-PeCDD		72.4	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		57.6	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		64.2	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		60.5	(23%-140%)
		13C-OCDD		56.4	(17%-157%)
		13C-2,3,7,8-TCDF		55.1	(24%-169%)
		13C-1,2,3,7,8-PeCDF		67.2	(24%-185%)
		13C-2,3,4,7,8-PeCDF		67.8	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		56.7	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		59.6	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		59.0	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		59.6	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		56.1	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		60.1	(26%-138%)
		37C1-2,3,7,8-TCDD		83.9	(35%-197%)

^{*} Recovery outside Acceptance Limits

Hi-Res Dioxins/Furans

Surrogate Recovery Report

SDG Number: A1D1005 Matrix Type: LIQUID Report Date: May 6, 2021
Page 3 of

of 3

Sample ID Client ID

Surrogate

QUAL

Recovery (%)

Acceptance Limits

D Sample Diluted

^{*} Recovery outside Acceptance Limits

[#] Column to be used to flag recovery values

Page 1

of 2

Hi-Res Dioxins/Furans

Quality Control Summary Spike Recovery Report

SDG Number: A1D1005 Sample Type: Laboratory Control Sample

Client ID: LCS for batch 46718 Matrix: WATER

Lab Sample ID: 12029195

Instrument: HRP763 Analysis Date: 04/30/2021 21:23 Dilution: 1

Analyst: MLL Prep Batch ID:46718

Batch ID: 46722

			Amount Added	Spike Conc.	Recovery	Acceptance
CAS No.		Parmname	pg/L	pg/L	%	Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	180	90	67-158
0321-76-4	LCS	1,2,3,7,8-PeCDD	1000	953	95.3	70-142
9227-28-6	LCS	1,2,3,4,7,8-HxCDD	1000	949	94.9	70-164
653-85-7	LCS	1,2,3,6,7,8-HxCDD	1000	986	98.6	76-134
408-74-3	LCS	1,2,3,7,8,9-HxCDD	1000	983	98.3	64-162
822-46-9	LCS	1,2,3,4,6,7,8-HpCDD	1000	955	95.5	70-140
68-87-9	LCS	1,2,3,4,6,7,8,9-OCDD	2000	1920	96	78-144
207-31-9	LCS	2,3,7,8-TCDF	200	184	92.2	75-158
17-41-6	LCS	1,2,3,7,8-PeCDF	1000	990	99	80-134
17-31-4	LCS	2,3,4,7,8-PeCDF	1000	926	92.6	68-160
648-26-9	LCS	1,2,3,4,7,8-HxCDF	1000	991	99.1	72-134
117-44-9	LCS	1,2,3,6,7,8-HxCDF	1000	1010	101	84-130
0851-34-5	LCS	2,3,4,6,7,8-HxCDF	1000	977	97.7	70-156
918-21-9	LCS	1,2,3,7,8,9-HxCDF	1000	949	94.9	78-130
562-39-4	LCS	1,2,3,4,6,7,8-HpCDF	1000	968	96.8	82-122
673-89-7	LCS	1,2,3,4,7,8,9-HpCDF	1000	905	90.5	78-138
001-02-0	LCS	1,2,3,4,6,7,8,9-OCDF	2000	1970	98.6	63-170

Page 2

May 6, 2021

of 2

Hi-Res Dioxins/Furans

Quality Control Summary Spike Recovery Report

SDG Number: A1D1005 Sample Type: Laboratory Control Sample Duplicate

Client ID: LCSD for batch 46718 Matrix: WATER

Lab Sample ID: 12029196

Instrument: HRP763 Analysis Date: 04/30/2021 22:12 Dilution: 1

Analyst: MLL Prep Batch ID:46718

Batch ID: 46722

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery	Acceptance Limits	RPD %	Acceptance Limits
CAS No.		r ai iiiiaiile	pg/L	pg/L	/0	2111105	/0	
1746-01-6	LCSD	2,3,7,8-TCDD	200	179	89.7	67-158	0.312	0-20
40321-76-4	LCSD	1,2,3,7,8-PeCDD	1000	968	96.8	70-142	1.46	0-20
39227-28-6	LCSD	1,2,3,4,7,8-HxCDD	1000	971	97.1	70-164	2.31	0-20
57653-85-7	LCSD	1,2,3,6,7,8-HxCDD	1000	990	99	76-134	0.462	0-20
19408-74-3	LCSD	1,2,3,7,8,9-HxCDD	1000	995	99.5	64-162	1.25	0-20
35822-46-9	LCSD	1,2,3,4,6,7,8-HpCDD	1000	1020	102	70-140	6.87	0-20
3268-87-9	LCSD	1,2,3,4,6,7,8,9-OCDD	2000	1840	91.8	78-144	4.55	0-20
51207-31-9	LCSD	2,3,7,8-TCDF	200	186	92.9	75-158	0.767	0-20
57117-41-6	LCSD	1,2,3,7,8-PeCDF	1000	1020	102	80-134	2.97	0-20
57117-31-4	LCSD	2,3,4,7,8-PeCDF	1000	978	97.8	68-160	5.52	0-20
70648-26-9	LCSD	1,2,3,4,7,8-HxCDF	1000	1030	103	72-134	3.75	0-20
57117-44-9	LCSD	1,2,3,6,7,8-HxCDF	1000	1030	103	84-130	1.88	0-20
60851-34-5	LCSD	2,3,4,6,7,8-HxCDF	1000	1000	100	70-156	2.72	0-20
72918-21-9	LCSD	1,2,3,7,8,9-HxCDF	1000	968	96.8	78-130	2.00	0-20
67562-39-4	LCSD	1,2,3,4,6,7,8-HpCDF	1000	948	94.8	82-122	2.08	0-20
55673-89-7	LCSD	1,2,3,4,7,8,9-HpCDF	1000	926	92.6	78-138	2.20	0-20
39001-02-0	LCSD	1,2,3,4,6,7,8,9-OCDF	2000	1880	94.1	63-170	4.63	0-20

May 6, 2021

Method Blank Summary

Page 1

of 1

A1D1005 SDG Number: **Client ID:**

Lab Sample ID: 12029194

MB for batch 46718

Prep Date:

Client:

APEX001 Instrument ID: HRP763 29-APR-21 Matrix:

WATER Data File: b30apr21a_2-3

Analyzed: 04/30/21 23:02

Column:

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed	
01 LCS for batch 46718	12029195	b30apr21a_2-1	04/30/21	2123	
02 LCSD for batch 46718	12029196	b30apr21a_2-2	04/30/21	2212	
03 SW-1(042421)	18042001	b30apr21a_2-6	05/01/21	0132	
04 SW-2(042421)	18042002	b30apr21a_2-7	05/01/21	0222	
05 DUP(042421)	18042003	b30apr21a_2-8	05/01/21	0312	

Page 1

May 6, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

MLL

SDG Number: A1D1005

Lab Sample ID: 12029194 Client Sample: QC for bat

QC for batch 46718 MB for batch 46718

Client ID: MB fo Batch ID: 46722

Run Date: 04/30/2021 23:02 Data File: b30apr21a_2-3 Pren Batch: 46718

Prep Batch: 46718 Prep Date: 29-APR-21 Client: APEX001

EX001 Project: Matrix:

EPA Method 1613B

APEX00320 WATER

Prep Basis:

As Received

Instrument:

Dilution:

HRP763 1

Prep Method: SW846 3520C Prep Aliquot: 1000 mL

Method:

Analyst:

Prep Date:	29-APR-21	Prep Aliquot:	1000 mL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.60	pg/L	1.60	10.0
40321-76-4	1,2,3,7,8-PeCDD	U	1.29	pg/L	1.29	50.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	1.64	pg/L	1.64	50.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.60	pg/L	1.60	50.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	1.63	pg/L	1.63	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	2.66	pg/L	2.66	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	U	4.08	pg/L	4.08	100
51207-31-9	2,3,7,8-TCDF	U	1.82	pg/L	1.82	10.0
57117-41-6	1,2,3,7,8-PeCDF	U	1.26	pg/L	1.26	50.0
57117-31-4	2,3,4,7,8-PeCDF	U	1.11	pg/L	1.11	50.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.964	pg/L	0.964	50.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.934	pg/L	0.934	50.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.966	pg/L	0.966	50.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.41	pg/L	1.41	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.03	pg/L	1.03	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	1.53	pg/L	1.53	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	5.22	pg/L	5.22	100
41903-57-5	Total TeCDD	U	1.60	pg/L	1.60	10.0
36088-22-9	Total PeCDD	U	1.29	pg/L	1.29	50.0
34465-46-8	Total HxCDD	U	1.60	pg/L	1.60	50.0
37871-00-4	Total HpCDD	U	2.66	pg/L	2.66	50.0
30402-14-3	Total TeCDF	U	1.82	pg/L	1.82	10.0
30402-15-4	Total PeCDF	U	1.11	pg/L	1.11	50.0
55684-94-1	Total HxCDF	U	0.934	pg/L	0.934	50.0
38998-75-3	Total HpCDF	U	1.03	pg/L	1.03	50.0
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		0.000	pg/L		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		2.21	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits	
13C-2,3,7,8-TCDD		1580	2000	pg/L	79.0	(25%-164%)	
13C-1,2,3,7,8-PeCDD		1630	2000	pg/L	81.7	(25%-181%)	
13C-1,2,3,4,7,8-HxCDD		1350	2000	pg/L	67.4	(32%-141%)	
13C-1,2,3,6,7,8-HxCDD		1520	2000	pg/L	75.9	(28%-130%)	
13C-1,2,3,4,6,7,8-HpCDD		1380	2000	pg/L	69.1	(23%-140%)	
13C-OCDD		2650	4000	pg/L	66.2	(17%-157%)	
13C-2,3,7,8-TCDF		1280	2000	pg/L	63.9	(24%-169%)	
13C-1,2,3,7,8-PeCDF		1510	2000	pg/L	75.4	(24%-185%)	
13C-2,3,4,7,8-PeCDF		1580	2000	pg/L	78.9	(21%-178%)	
13C-1,2,3,4,7,8-HxCDF		1280	2000	pg/L	63.8	(26%-152%)	
13C-1,2,3,6,7,8-HxCDF		1360	2000	pg/L	67.9	(26%-123%)	
13C-2,3,4,6,7,8-HxCDF		1400	2000	pg/L	70.1	(28%-136%)	
13C-1,2,3,7,8,9-HxCDF		1420	2000	pg/L	70.8	(29%-147%)	

Page 2

May 6, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis

Sample Summary

MLL

1000 mL

A1D1005 SDG Number: Lab Sample ID:

12029194

QC for batch 46718

Client ID: MB for batch 46718

Batch ID: 46722 04/30/2021 23:02 **Run Date:**

Client Sample:

Data File: b30apr21a_2-3 46718 Prep Batch: **Prep Date:** 29-APR-21

Client:

Method:

Analyst:

Prep Method:

Prep Aliquot:

APEX001

EPA Method 1613B

SW846 3520C

Project:

APEX00320 WATER

Matrix:

Prep Basis:

As Received

Instrument:

HRP763 1

PQL

Dilution:

CAS No. Qual Units **EDL Parmname** Result

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1310	2000	pg/L	65.5	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1410	2000	pg/L	70.6	(26%-138%)
37Cl-2,3,7,8-TCDD		176	200	pg/L	88.2	(35%-197%)

Comments:

Analyte was analyzed for, but not detected above the specified detection limit.

As Received

Page 1

May 6, 2021

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1D1005 Client: APEX001 **Project:** APEX00320 SDG Number: 12029195 WATER Lab Sample ID: Matrix:

Method:

Analyst:

QC for batch 46718 **Client Sample:**

Client ID: LCS for batch 46718 **Batch ID:** 46722

04/30/2021 21:23 **Run Date:**

Data File: b30apr21a_2-1 **Prep Batch:** 46718 **Prep Date:**

SW846 3520C **Prep Method:** Prep Aliquot: $1000 \ mL$ 29-APR-21

EPA Method 1613B

MLL

Instrument: Dilution:

Prep Basis:

HRP763

1

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		180	pg/L	1.69	10.0
40321-76-4	1,2,3,7,8-PeCDD		953	pg/L	4.24	50.0
39227-28-6	1,2,3,4,7,8-HxCDD		949	pg/L	7.94	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		986	pg/L	7.58	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		983	pg/L	7.82	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		955	pg/L	15.7	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1920	pg/L	19.8	100
51207-31-9	2,3,7,8-TCDF		184	pg/L	2.04	10.0
57117-41-6	1,2,3,7,8-PeCDF		990	pg/L	5.94	50.0
57117-31-4	2,3,4,7,8-PeCDF		926	pg/L	5.10	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		991	pg/L	7.74	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1010	pg/L	7.78	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		977	pg/L	8.24	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		949	pg/L	12.2	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		968	pg/L	10.7	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		905	pg/L	14.7	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		1970	pg/L	16.6	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1650	2000	pg/L	82.7	(20%-175%)
13C-1,2,3,7,8-PeCDD		1770	2000	pg/L	88.5	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1510	2000	pg/L	75.6	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1640	2000	pg/L	81.9	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1560	2000	pg/L	78.0	(22%-166%)
13C-OCDD		2790	4000	pg/L	69.8	(13%-199%)
13C-2,3,7,8-TCDF		1350	2000	pg/L	67.7	(22%-152%)
13C-1,2,3,7,8-PeCDF		1620	2000	pg/L	81.0	(21%-192%)
13C-2,3,4,7,8-PeCDF		1690	2000	pg/L	84.7	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1420	2000	pg/L	70.8	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1500	2000	pg/L	74.8	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1530	2000	pg/L	76.6	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1500	2000	pg/L	74.9	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1440	2000	pg/L	72.1	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1550	2000	pg/L	77.5	(20%-186%)
37Cl-2,3,7,8-TCDD		173	200	pg/L	86.6	(31%-191%)

Comments:

Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

May 6, 2021

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1D1005 Client: SDG Number: 12029196 Lab Sample ID:

APEX001

Project:

APEX00320

WATER Matrix:

QC for batch 46718 **Client Sample: Client ID:** LCSD for batch 46718

Batch ID: 46722

04/30/2021 22:12 **Run Date:** Data File: b30apr21a_2-2

Method: **Analyst:** MLL

EPA Method 1613B

Prep Basis:

As Received HRP763

Prep Batch: 46718 SW846 3520C

Dilution:

Instrument: 1

Prep Method: Prep Aliquot: $1000 \ mL$ **Prep Date:** 29-APR-21

CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	Quai	179		2.10	10.0
				pg/L		
40321-76-4	1,2,3,7,8-PeCDD		968	pg/L	3.70	50.0
39227-28-6	1,2,3,4,7,8-HxCDD		971	pg/L	8.42	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		990	pg/L	7.92	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		995	pg/L	8.22	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		1020	pg/L	14.3	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1840	pg/L	21.2	100
51207-31-9	2,3,7,8-TCDF		186	pg/L	2.66	10.0
57117-41-6	1,2,3,7,8-PeCDF		1020	pg/L	5.82	50.0
57117-31-4	2,3,4,7,8-PeCDF		978	pg/L	4.98	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1030	pg/L	7.78	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1030	pg/L	7.70	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1000	pg/L	7.90	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		968	pg/L	11.0	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		948	pg/L	9.24	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		926	pg/L	14.2	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		1880	pg/L	18.7	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1610	2000	pg/L	80.7	(20%-175%)
13C-1,2,3,7,8-PeCDD		1630	2000	pg/L	81.5	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1420	2000	pg/L	70.8	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1560	2000	pg/L	78.0	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1500	2000	pg/L	75.0	(22%-166%)
13C-OCDD		2900	4000	pg/L	72.5	(13%-199%)
13C-2,3,7,8-TCDF		1280	2000	pg/L	63.9	(22%-152%)
13C-1,2,3,7,8-PeCDF		1500	2000	pg/L	75.2	(21%-192%)
13C-2,3,4,7,8-PeCDF		1540	2000	pg/L	77.1	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1330	2000	pg/L	66.3	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1410	2000	pg/L	70.3	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1450	2000	pg/L	72.4	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1410	2000	pg/L	70.3	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1400	2000	pg/L	70.0	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1450	2000	pg/L	72.5	(20%-186%)
37Cl-2,3,7,8-TCDD		185	200	pg/L	92.7	(31%-191%)

Comments:

Analyte was analyzed for, but not detected above the specified detection limit.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Thursday, July 1, 2021 Kyle Haggart GeoDesign, Inc. 9450 SW Commerce Circle Wilsonville, OR 97070

RE: A1E0987 - Former Automatic Vending Co. - BCSAmerica-1-02

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A1E0987, which was received by the laboratory on 5/24/2021 at 5:00:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler #1 2.9 degC Cooler #3 3.8 degC Cooler #2 4.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.





Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevenberg

Page 1 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	ORMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1(052421)	A1E0987-01	Water	05/24/21 09:30	05/24/21 17:00
SW-2(052421)	A1E0987-02	Water	05/24/21 09:45	05/24/21 17:00
DUP(052421)	A1E0987-03	Water	05/24/21 09:35	05/24/21 17:00
SW-1-TB(052421)	A1E0987-04	Water	05/24/21 00:00	05/24/21 17:00
SW-2-TB(052421)	A1E0987-05	Water	05/24/21 00:00	05/24/21 17:00
DUP-TB(052421)	A1E0987-06	Water	05/24/21 00:00	05/24/21 17:00

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	il Hydrocar	bons by NWTPI	H-Dx			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(052421) (A1E0987-01RE1)				Matrix: Water Batch: 1050917				
Diesel	0.335	0.0971	0.194	mg/L	1	05/27/21 08:13	NWTPH-Dx	F-17
Oil	0.466	0.194	0.388	mg/L	1	05/27/21 08:13	NWTPH-Dx	F-24
Surrogate: o-Terphenyl (Surr)		Recov	ery: 116%	Limits: 50-150 %	1	05/27/21 08:13	NWTPH-Dx	
SW-2(052421) (A1E0987-02)				Matrix: Wate	er	Batch:	1050917	
Diesel	2.04	0.0952	0.190	mg/L	1	05/26/21 01:19	NWTPH-Dx	F-11
Oil	ND	0.190	0.381	mg/L	1	05/26/21 01:19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 86 %	Limits: 50-150 %	1	05/26/21 01:19	NWTPH-Dx	
DUP(052421) (A1E0987-03RE1)				Matrix: Wate	er	Batch:	1050917	
Diesel	0.340	0.104	0.208	mg/L	1	05/27/21 08:54	NWTPH-Dx	F-17
Oil	0.508	0.208	0.417	mg/L	1	05/27/21 08:54	NWTPH-Dx	F-24
Surrogate: o-Terphenyl (Surr)		Recov	ery: 114%	Limits: 50-150 %	1	05/27/21 08:54	NWTPH-Dx	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons (Benzene tl	nrough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(052421) (A1E0987-01)				Matrix: Wate	er	Batch	1060007	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	06/01/21 15:12	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 94%	Limits: 50-150 %	5 1	06/01/21 15:12	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %	50-150 %	1	06/01/21 15:12	NWTPH-Gx (MS)	
SW-2(052421) (A1E0987-02)				Matrix: Wate	er	Batch	: 1060007	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	06/01/21 15:41	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 101 %	Limits: 50-150 %	5 I	06/01/21 15:41	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %	50-150 %	1	06/01/21 15:41	NWTPH-Gx (MS)	
DUP(052421) (A1E0987-03)				Matrix: Wate	er	Batch	: 1060007	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	06/01/21 17:08	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 99%	Limits: 50-150 %	5 1	06/01/21 17:08	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %	50-150 %	<i>I</i>	06/01/21 17:08	NWTPH-Gx (MS)	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	V	olatile Organi	ic Compound	us by EPA 8				
A 1.	Sample	Detection	Reporting	** *	D.1	Date	M 4 4= -	3.7
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-1(052421) (A1E0987-01)				Matrix: Wa	ater	Batch:	1060007	
Acetone	ND	20.0	20.0	ug/L	1	06/01/21 15:12	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:12	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Bromoform	ND	1.00	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	06/01/21 15:12	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	06/01/21 15:12	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	06/01/21 15:12	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:12	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Chloromethane	4.04	2.50	5.00	ug/L	1	06/01/21 15:12	EPA 8260D	J
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:12	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:12	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:12	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	06/01/21 15:12	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	06/01/21 15:12	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	06/01/21 15:12	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	06/01/21 15:12	EPA 8260D	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	V	olatile Organ	ic Compou	nds by EPA 826	0D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(052421) (A1E0987-01)				Matrix: Wate	er	Batch:	1060007	
Naphthalene	ND	1.00	2.00	ug/L	1	06/01/21 15:12	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:12	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	06/01/21 15:12	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/01/21 15:12	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/01/21 15:12	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	06/01/21 15:12	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	06/01/21 15:12	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 15:12	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 109 %	Limits: 80-120 %	1	06/01/21 15:12	EPA 8260D	
Toluene-d8 (Surr)			105 %	80-120 %	1	06/01/21 15:12	EPA 8260D	
4-Bromofluorobenzene (Surr)			96 %	80-120 %	1	06/01/21 15:12	EPA 8260D	
SW-2(052421) (A1E0987-02)				Matrix: Wate	er	Batch:	1060007	
Acetone	ND	10.0	20.0	ug/L	1	06/01/21 15:41	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:41	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Bromoform	ND	1.00	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	06/01/21 15:41	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	06/01/21 15:41	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	06/01/21 15:41	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:41	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	06/01/21 15:41	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 6 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	V	olatile Organ	ic Compou	nds by EPA 826	0D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-2(052421) (A1E0987-02)				Matrix: Wate	er	Batch:	1060007	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:41	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:41	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:41	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	06/01/21 15:41	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	06/01/21 15:41	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	06/01/21 15:41	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	06/01/21 15:41	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	06/01/21 15:41	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	06/01/21 15:41	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	06/01/21 15:41	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/01/21 15:41	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/01/21 15:41	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	06/01/21 15:41	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	06/01/21 15:41	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 15:41	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recov	ery: 109 %	Limits: 80-120 %	1	06/01/21 15:41	EPA 8260D	
Toluene-d8 (Surr)			101 %	80-120 %	1	06/01/21 15:41	EPA 8260D	
4-Bromofluorobenzene (Surr)			96 %	80-120 %	1	06/01/21 15:41	EPA 8260D	
OUP(052421) (A1E0987-03)				Matrix: Wate	er	Batch:	1060007	
Acetone	21.4	10.0	20.0	ug/L	1	06/01/21 17:08	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	06/01/21 17:08	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Bromoform	ND	1.00	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	06/01/21 17:08	EPA 8260D	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevenberg

Page 7 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
OUP(052421) (A1E0987-03)				Matrix: Wa	ater	Batch:	1060007	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	06/01/21 17:08	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	06/01/21 17:08	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 17:08	EPA 8260D	
Chloroethane	ND	5.00	5.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	06/01/21 17:08	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 17:08	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 17:08	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/01/21 17:08	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	06/01/21 17:08	EPA 8260D	
2-Hexanone	ND	10.0	10.0	ug/L	1	06/01/21 17:08	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	06/01/21 17:08	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	06/01/21 17:08	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	06/01/21 17:08	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	06/01/21 17:08	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	06/01/21 17:08	EPA 8260D	
,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/01/21 17:08	EPA 8260D	
,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/01/21 17:08	EPA 8260D	
,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	06/01/21 17:08	EPA 8260D	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	V	olatile Organ	ic Compou	nds by EPA 826	0D			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DUP(052421) (A1E0987-03)				Matrix: Wate	er	Batch:	1060007	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	06/01/21 17:08	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	06/01/21 17:08	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 107 %	Limits: 80-120 %	5 1	06/01/21 17:08	EPA 8260D	
Toluene-d8 (Surr)			104 %	80-120 %	5 I	06/01/21 17:08	EPA 8260D	
4-Bromofluorobenzene (Surr)			96 %	80-120 %	5 1	06/01/21 17:08	EPA 8260D	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 9 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	Sample	Detection I	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-1(052421) (A1E0987-01)				Matrix: Wate	er	Batch	: 1060197	
Benzene	ND	0.0500	0.100	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
m,p-Xylene	ND	0.200	0.200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	Q-54a
o-Xylene	ND	0.100	0.100	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.100	0.100	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 22:52	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery.	97%	Limits: 80-120 %	5 1	06/03/21 22:52	EPA 8260D SIM	
Toluene-d8 (Surr)			99 %	80-120 %	1	06/03/21 22:52	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			99 %	80-120 %	5 1	06/03/21 22:52	EPA 8260D SIM	
SW-2(052421) (A1E0987-02)				Matrix: Wate	er	Batch	: 1060197	
Benzene	ND	0.0500	0.100	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
m,p-Xylene	ND	0.200	0.200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	Q-54a
o-Xylene	ND	0.100	0.100	ug/L	1	06/03/21 20:38	EPA 8260D SIM	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Menterg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	Vol	atile Organic Co	mpound	s by EPA 8260D	SIM			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-2(052421) (A1E0987-02)				Matrix: Wate	r	Batch:	1060197	
1,3,5-Trimethylbenzene	ND	0.100	0.100	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 20:38	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	·: 97 %	Limits: 80-120 %	1	06/03/21 20:38	EPA 8260D SIM	
Toluene-d8 (Surr)			97 %	80-120 %	1	06/03/21 20:38	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	06/03/21 20:38	EPA 8260D SIM	
DUP(052421) (A1E0987-03)				Matrix: Wate	r	Batch:	1060197	
Benzene	ND	0.0500	0.100	ug/L	1	06/03/21 21:05	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	06/03/21 21:05	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	06/03/21 21:05	EPA 8260D SIM	
m,p-Xylene	ND	0.200	0.200	ug/L	1	06/03/21 21:05	EPA 8260D SIM	Q-54a
o-Xylene	ND	0.100	0.100	ug/L	1	06/03/21 21:05	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.100	0.100	ug/L	1	06/03/21 21:05	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	06/03/21 21:05	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	06/03/21 21:05	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	06/03/21 21:05	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 21:05	EPA 8260D SIM	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

1,2-Dichloroethane (EDC) ND 0.0100 0.0200 ug/L 1,1-Dichloroethene ND 0.0100 0.0200 ug/L cis-1,2-Dichloroethene ND 0.0100 0.0200 ug/L trans-1,2-Dichloroethene ND 0.0100 0.0200 ug/L 1,2-Dichloropropane ND 0.0100 0.0200 ug/L cis-1,3-Dichloropropene ND 0.0100 0.0200 ug/L trans-1,3-Dichloropropene ND 0.0100 0.0200 ug/L Methyl tert-butyl ether (MTBE) ND 0.0100 0.0200 ug/L 1,1,2,2-Tetrachloroethane ND 0.0100 0.0200 ug/L Trichloroethene (PCE) ND 0.0100 0.0200 ug/L Trichloropropane ND 0.0100 0.0200 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200	Dilution ter	Date Analyzed Batch:	Method Ref.	Notes
DUP(052421) (A1E0987-03) Matrix: Wax	ter	•		
1,2-Dichloroethane (EDC) ND 0.0100 0.0200 ug/L 1,1-Dichloroethene ND 0.0100 0.0200 ug/L cis-1,2-Dichloroethene ND 0.0100 0.0200 ug/L trans-1,2-Dichloroethene ND 0.0100 0.0200 ug/L 1,2-Dichloropropane ND 0.0100 0.0200 ug/L cis-1,3-Dichloropropene ND 0.0100 0.0200 ug/L trans-1,3-Dichloropropene ND 0.0100 0.0200 ug/L Methyl tert-butyl ether (MTBE) ND 0.0100 0.0200 ug/L 1,1,2,2-Tetrachloroethane ND 0.0100 0.0200 ug/L Trichloroethene (PCE) ND 0.0100 0.0200 ug/L 1,2,3-Trichloropropane ND 0.0500 0.100 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L			1060197	
1,1-Dichloroethene ND 0.0100 0.0200 ug/L cis-1,2-Dichloroethene ND 0.0100 0.0200 ug/L trans-1,2-Dichloroethene ND 0.0100 0.0200 ug/L 1,2-Dichloropropane ND 0.0100 0.0200 ug/L cis-1,3-Dichloropropene ND 0.0100 0.0200 ug/L trans-1,3-Dichloropropene ND 0.0100 0.0200 ug/L Methyl tert-butyl ether (MTBE) ND 0.0100 0.0200 ug/L 1,1,2,2-Tetrachloroethane ND 0.0100 0.0200 ug/L Tetrachloroethene (PCE) ND 0.0100 0.0200 ug/L Trichloroethene (TCE) ND 0.0100 0.0200 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
cis-1,2-Dichloroethene ND 0.0100 0.0200 ug/L trans-1,2-Dichloroethene ND 0.0100 0.0200 ug/L 1,2-Dichloropropane ND 0.0100 0.0200 ug/L cis-1,3-Dichloropropene ND 0.0100 0.0200 ug/L trans-1,3-Dichloropropene ND 0.0100 0.0200 ug/L Methyl tert-butyl ether (MTBE) ND 0.0100 0.0200 ug/L 1,1,2,2-Tetrachloroethane ND 0.0100 0.0200 ug/L Tetrachloroethene (PCE) ND 0.0100 0.0200 ug/L Trichloroethene (TCE) ND 0.0100 0.0200 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
trans-1,2-Dichloroethene ND 0.0100 0.0200 ug/L 1,2-Dichloropropane ND 0.0100 0.0200 ug/L cis-1,3-Dichloropropene ND 0.0100 0.0200 ug/L trans-1,3-Dichloropropene ND 0.0100 0.0200 ug/L Methyl tert-butyl ether (MTBE) ND 0.0100 0.0200 ug/L 1,1,2,2-Tetrachloroethane ND 0.0100 0.0200 ug/L Tetrachloroethene (PCE) ND 0.0100 0.0200 ug/L Trichloroethene (TCE) ND 0.0100 0.0200 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
1,2-Dichloropropane ND 0.0100 0.0200 ug/L cis-1,3-Dichloropropene ND 0.0100 0.0200 ug/L trans-1,3-Dichloropropene ND 0.0100 0.0200 ug/L Methyl tert-butyl ether (MTBE) ND 0.0100 0.0200 ug/L 1,1,2,2-Tetrachloroethane ND 0.0100 0.0200 ug/L Tetrachloroethene (PCE) ND 0.0100 0.0200 ug/L Trichloroethene (TCE) ND 0.0100 0.0200 ug/L 1,2,3-Trichloropropane ND 0.0500 0.100 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
cis-1,3-Dichloropropene ND 0.0100 0.0200 ug/L trans-1,3-Dichloropropene ND 0.0100 0.0200 ug/L Methyl tert-butyl ether (MTBE) ND 0.0100 0.0200 ug/L 1,1,2,2-Tetrachloroethane ND 0.0100 0.0200 ug/L Tetrachloroethene (PCE) ND 0.0100 0.0200 ug/L Trichloroethene (TCE) ND 0.0100 0.0200 ug/L 1,2,3-Trichloropropane ND 0.0500 0.100 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
trans-1,3-Dichloropropene ND 0.0100 0.0200 ug/L Methyl tert-butyl ether (MTBE) ND 0.0100 0.0200 ug/L 1,1,2,2-Tetrachloroethane ND 0.0100 0.0200 ug/L Tetrachloroethene (PCE) ND 0.0100 0.0200 ug/L Trichloroethene (TCE) ND 0.0100 0.0200 ug/L 1,2,3-Trichloropropane ND 0.0500 0.100 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE) ND 0.0100 0.0200 ug/L 1,1,2,2-Tetrachloroethane ND 0.0100 0.0200 ug/L Tetrachloroethene (PCE) ND 0.0100 0.0200 ug/L Trichloroethene (TCE) ND 0.0100 0.0200 ug/L 1,2,3-Trichloropropane ND 0.0500 0.100 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane ND 0.0100 0.0200 ug/L Tetrachloroethene (PCE) ND 0.0100 0.0200 ug/L Trichloroethene (TCE) ND 0.0100 0.0200 ug/L 1,2,3-Trichloropropane ND 0.0500 0.100 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
Tetrachloroethene (PCE) ND 0.0100 0.0200 ug/L Trichloroethene (TCE) ND 0.0100 0.0200 ug/L 1,2,3-Trichloropropane ND 0.0500 0.100 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
Trichloroethene (TCE) ND 0.0100 0.0200 ug/L 1,2,3-Trichloropropane ND 0.0500 0.100 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
1,2,3-Trichloropropane ND 0.0500 0.100 ug/L Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
Vinyl chloride ND 0.0100 0.0200 ug/L 1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
1,1,2-Trichloroethane ND 0.0100 0.0200 ug/L	1	06/03/21 21:05	EPA 8260D SIM	
	1	06/03/21 21:05	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr) Recovery: 97 % Limits: 80-120	% 1	06/03/21 21:05	EPA 8260D SIM	
Toluene-d8 (Surr) 99 % 80-120	% 1	06/03/21 21:05	EPA 8260D SIM	
4-Bromofluorobenzene (Surr) 99 % 80-120	% 1	06/03/21 21:05	EPA 8260D SIM	
SW-1-TB(052421) (A1E0987-04) Matrix: Wa	ter	Batch:	1060197	V-01
Benzene ND 0.0500 0.100 ug/L	1	06/03/21 19:17	EPA 8260D SIM	
Toluene ND 0.0500 0.100 ug/L	1	06/03/21 19:17	EPA 8260D SIM	
Ethylbenzene ND 0.0500 0.100 ug/L	1	06/03/21 19:17	EPA 8260D SIM	
m,p-Xylene ND 0.200 ug/L	1	06/03/21 19:17	EPA 8260D SIM	Q-54a
o-Xylene ND 0.100 0.100 ug/L	1	06/03/21 19:17	EPA 8260D SIM	
1,2,4-Trimethylbenzene ND 0.100 0.100 ug/L	1	06/03/21 19:17	EPA 8260D SIM	
1,3,5-Trimethylbenzene ND 0.100 0.100 ug/L	1	06/03/21 19:17	EPA 8260D SIM	
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1	06/03/21 19:17	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane ND 0.100 0.200 ug/L	1	06/03/21 19:17	EPA 8260D SIM	
1,2-Dibromoethane (EDB) ND 0.0100 0.0200 ug/L	1	06/03/21 19:17	EPA 8260D SIM	
$1,1\text{-Dichloroethane} \qquad \qquad \text{ND} \qquad \qquad 0.0100 \qquad \qquad 0.0200 \qquad \qquad \text{ug/L}$	1	06/03/21 19:17	EPA 8260D SIM	
1,2-Dichloroethane (EDC) ND 0.0100 0.0200 ug/L	1	06/03/21 19:17	EPA 8260D SIM	
1,1-Dichloroethene ND 0.0100 0.0200 ug/L	1	06/02/21 10:17	EPA 8260D SIM	
cis-1,2-Dichloroethene ND 0.0100 0.0200 ug/L	1	06/03/21 19:17		
trans-1,2-Dichloroethene ND 0.0100 0.0200 ug/L	1	06/03/21 19:17	EPA 8260D SIM	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevenberg

Page 12 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

			-	s by EPA 8260D		Data		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1-TB(052421) (A1E0987-04)				Matrix: Wate	er	Batch:	1060197	V-01
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	06/03/21 19:17	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	06/03/21 19:17	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	06/03/21 19:17	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	06/03/21 19:17	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 19:17	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	06/03/21 19:17	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	06/03/21 19:17	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	06/03/21 19:17	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	06/03/21 19:17	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 19:17	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 97%	Limits: 80-120 %	I	06/03/21 19:17	EPA 8260D SIM	
Toluene-d8 (Surr)			96 %	80-120 %	1	06/03/21 19:17	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	06/03/21 19:17	EPA 8260D SIM	
SW-2-TB(052421) (A1E0987-05)				Matrix: Wate	er	Batch:	1060197	
Benzene	ND	0.0500	0.100	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
m,p-Xylene	ND	0.200	0.200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	Q-54a
o-Xylene	ND	0.100	0.100	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.100	0.100	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.100	0.100	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	Vola	atile Organic (Compound	s by EPA 8260D	SIM			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-2-TB(052421) (A1E0987-05)				Matrix: Wate	er	Batch:	1060197	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 19:44	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Recov	ery: 98 %	Limits: 80-120 %	I	06/03/21 19:44	EPA 8260D SIM	
Toluene-d8 (Surr)			96 %	80-120 %	1	06/03/21 19:44	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			99 %	80-120 %	I	06/03/21 19:44	EPA 8260D SIM	
DUP-TB(052421) (A1E0987-06)				Matrix: Wate	er	Batch:	1060197	
Benzene	ND	0.0500	0.100	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
Toluene	ND	0.0500	0.100	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
Ethylbenzene	ND	0.0500	0.100	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
m,p-Xylene	ND	0.200	0.200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
o-Xylene	ND	0.100	0.100	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
1,2,4-Trimethylbenzene	ND	0.100	0.100	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
1,3,5-Trimethylbenzene	ND	0.100	0.100	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
Chloroform	ND	0.0500	0.100	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1	06/03/21 20:11	EPA 8260D SIM	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	Volatile Organic Compounds by EPA 8260D SIM												
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes					
DUP-TB(052421) (A1E0987-06)				Matrix: Water Batch: 1060197									
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM						
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1	06/03/21 20:11	EPA 8260D SIM						
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery): 98 %	Limits: 80-120 %	5 1	06/03/21 20:11	EPA 8260D SIM						
Toluene-d8 (Surr)			97 %	80-120 %	5 1	06/03/21 20:11	EPA 8260D SIM						
4-Bromofluorobenzene (Surr)			98 %	80-120 %	5 I	06/03/21 20:11	EPA 8260D SIM						

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

		Polychlorinate	d Bipheny	ls by EPA 8082	2A			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Note
SW-1(052421) (A1E0987-01)				Matrix: Wate	er	Batch:	1060206	C-07
Aroclor 1016	ND	0.0213	0.0426	ug/L	1	06/04/21 18:45	EPA 8082A	
Aroclor 1221	ND	0.0426	0.0426	ug/L	1	06/04/21 18:45	EPA 8082A	
Aroclor 1232	ND	0.0213	0.0426	ug/L	1	06/04/21 18:45	EPA 8082A	
Aroclor 1242	ND	0.0213	0.0426	ug/L	1	06/04/21 18:45	EPA 8082A	
Aroclor 1248	ND	0.0213	0.0426	ug/L	1	06/04/21 18:45	EPA 8082A	
Aroclor 1254	0.0741	0.0213	0.0426	ug/L	1	06/04/21 18:45	EPA 8082A	
Aroclor 1260	ND	0.0213	0.0426	ug/L	1	06/04/21 18:45	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recover	ry: 67%	Limits: 40-135 %	5 1	06/04/21 18:45	EPA 8082A	
SW-2(052421) (A1E0987-02)				Matrix: Wate	er	Batch:	1060206	C-07
Aroclor 1016	ND	0.0187	0.0374	ug/L	1	06/04/21 19:02	EPA 8082A	
Aroclor 1221	ND	0.0187	0.0374	ug/L	1	06/04/21 19:02	EPA 8082A	
Aroclor 1232	ND	0.0187	0.0374	ug/L	1	06/04/21 19:02	EPA 8082A	
Aroclor 1242	ND	0.0187	0.0374	ug/L	1	06/04/21 19:02	EPA 8082A	
Aroclor 1248	ND	0.0187	0.0374	ug/L	1	06/04/21 19:02	EPA 8082A	
Aroclor 1254	ND	0.0187	0.0374	ug/L	1	06/04/21 19:02	EPA 8082A	
Aroclor 1260	ND	0.0187	0.0374	ug/L	1	06/04/21 19:02	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recover	ry: 55 %	Limits: 40-135 %	5 1	06/04/21 19:02	EPA 8082A	
OUP(052421) (A1E0987-03)				Matrix: Wate	er	Batch:	1060206	C-07
Aroclor 1016	ND	0.0200	0.0400	ug/L	1	06/04/21 19:20	EPA 8082A	
Aroclor 1221	ND	0.0400	0.0400	ug/L	1	06/04/21 19:20	EPA 8082A	
Aroclor 1232	ND	0.0200	0.0400	ug/L	1	06/04/21 19:20	EPA 8082A	
Aroclor 1242	ND	0.0200	0.0400	ug/L	1	06/04/21 19:20	EPA 8082A	
Aroclor 1248	ND	0.0200	0.0400	ug/L	1	06/04/21 19:20	EPA 8082A	
Aroclor 1254	ND	0.0200	0.0400	ug/L	1	06/04/21 19:20	EPA 8082A	
Aroclor 1260	ND	0.0200	0.0400	ug/L	1	06/04/21 19:20	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recover	ry: 65 %	Limits: 40-135 %	5 1	06/04/21 19:20	EPA 8082A	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
W-1(052421) (A1E0987-01RE1)				Matrix: Wate	er	Batch:	1050961	R-04
Acenaphthene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Acenaphthylene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Anthracene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Benz(a)anthracene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Benzo(a)pyrene	ND	0.142	0.283	ug/L	10	05/27/21 12:11	EPA 8270E	
Benzo(b)fluoranthene	ND	0.142	0.283	ug/L	10	05/27/21 12:11	EPA 8270E	
Benzo(k)fluoranthene	ND	0.142	0.283	ug/L	10	05/27/21 12:11	EPA 8270E	
Benzo(g,h,i)perylene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Chrysene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Fluoranthene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Fluorene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Indeno(1,2,3-cd)pyrene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
1-Methylnaphthalene	ND	0.189	0.377	ug/L	10	05/27/21 12:11	EPA 8270E	
2-Methylnaphthalene	ND	0.189	0.377	ug/L	10	05/27/21 12:11	EPA 8270E	
Naphthalene	ND	0.189	0.377	ug/L	10	05/27/21 12:11	EPA 8270E	
Phenanthrene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Pyrene	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Carbazole	ND	0.142	0.283	ug/L	10	05/27/21 12:11	EPA 8270E	
Dibenzofuran	ND	0.0943	0.189	ug/L	10	05/27/21 12:11	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	1.89	3.77	ug/L	10	05/27/21 12:11	EPA 8270E	
Butyl benzyl phthalate	ND	1.89	3.77	ug/L	10	05/27/21 12:11	EPA 8270E	
Diethylphthalate	ND	1.89	3.77	ug/L	10	05/27/21 12:11	EPA 8270E	
Dimethylphthalate	ND	1.89	3.77	ug/L	10	05/27/21 12:11	EPA 8270E	
Di-n-butylphthalate	ND	1.89	3.77	ug/L	10	05/27/21 12:11	EPA 8270E	
Di-n-octyl phthalate	ND	1.89	3.77	ug/L	10	05/27/21 12:11	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recovery	: 70 %	Limits: 44-120 %	5 10	05/27/21 12:11	EPA 8270E	
2-Fluorobiphenyl (Surr)			76 %	44-120 %		05/27/21 12:11	EPA 8270E	
Phenol-d6 (Surr)			25 %	10-133 %		05/27/21 12:11	EPA 8270E	
p-Terphenyl-d14 (Surr)			56 %	50-134 %		05/27/21 12:11	EPA 8270E	
2-Fluorophenol (Surr) 2,4,6-Tribromophenol (Surr)			34 % 106 %	19-120 % 43-140 %		05/27/21 12:11 05/27/21 12:11	EPA 8270E EPA 8270E	

Apex Laboratories

SW-2(052421) (A1E0987-02RE1)

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Batch: 1050961

Matrix: Water

R-04



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

Sample	Detection	Reporting			Date		
Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
			Matrix: Wate	er .	Batch:	1050961	R-04
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.283	0.566	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.283	0.566	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.283	0.566	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.377	0.755	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.377	0.755	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.377	0.755	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.283	0.566	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	0.189	0.377	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	3.77	7.55	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	3.77	7.55	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	3.77	7.55	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	3.77	7.55	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	3.77	7.55	ug/L	20	05/27/21 12:46	EPA 8270E	
ND	3.77	7.55	ug/L	20	05/27/21 12:46	EPA 8270E	
	Recove	ery: 89 %	Limits: 44-120 %	5 20	05/27/21 12:46	EPA 8270E	
		87 %			05/27/21 12:46	EPA 8270E	
		27 %			05/27/21 12:46	EPA 8270E	
		37 %			05/27/21 12:46	EPA 8270E	S-06
	Result ND	Result Limit ND 0.189 ND 0.189 ND 0.189 ND 0.283 ND 0.283 ND 0.189 ND 0.189 ND 0.189 ND 0.189 ND 0.189 ND 0.189 ND 0.377 ND 0.377 ND 0.377 ND 0.189 ND 0.189 ND 0.189 ND 0.189 ND 0.189 ND 3.77 ND 3.77	ND	ND	ND	Result Limit Limit Units Dilution Analyzed	ND

Apex Laboratories

DUP(052421) (A1E0987-03RE1)

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Batch: 1050961

Matrix: Water

R-04



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

	Sen	Semivolatile Organic Compounds by EPA 8270E									
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes			
OUP(052421) (A1E0987-03RE1)				Matrix: Wate	r	Batch:	1050961	R-04			
Acenaphthene	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
Acenaphthylene	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
Anthracene	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
Benz(a)anthracene	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
Benzo(a)pyrene	ND	0.286	0.571	ug/L	20	05/27/21 13:22	EPA 8270E				
Benzo(b)fluoranthene	ND	0.286	0.571	ug/L	20	05/27/21 13:22	EPA 8270E				
Benzo(k)fluoranthene	ND	0.286	0.571	ug/L	20	05/27/21 13:22	EPA 8270E				
Benzo(g,h,i)perylene	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
Chrysene	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
Dibenz(a,h)anthracene	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
Fluoranthene	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
Fluorene	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
Indeno(1,2,3-cd)pyrene	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
1-Methylnaphthalene	ND	0.381	0.762	ug/L	20	05/27/21 13:22	EPA 8270E				
2-Methylnaphthalene	ND	0.381	0.762	ug/L	20	05/27/21 13:22	EPA 8270E				
Naphthalene	ND	0.381	0.762	ug/L	20	05/27/21 13:22	EPA 8270E				
Phenanthrene	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
Pyrene	0.194	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E	J			
Carbazole	ND	0.286	0.571	ug/L	20	05/27/21 13:22	EPA 8270E				
Dibenzofuran	ND	0.190	0.381	ug/L	20	05/27/21 13:22	EPA 8270E				
Bis(2-ethylhexyl)phthalate	ND	3.81	7.62	ug/L	20	05/27/21 13:22	EPA 8270E				
Butyl benzyl phthalate	ND	3.81	7.62	ug/L	20	05/27/21 13:22	EPA 8270E				
Diethylphthalate	ND	3.81	7.62	ug/L	20	05/27/21 13:22	EPA 8270E				
Dimethylphthalate	ND	3.81	7.62	ug/L	20	05/27/21 13:22	EPA 8270E				
Di-n-butylphthalate	ND	3.81	7.62	ug/L	20	05/27/21 13:22	EPA 8270E				
Di-n-octyl phthalate	ND	3.81	7.62	ug/L	20	05/27/21 13:22	EPA 8270E				
Surrogate: Nitrobenzene-d5 (Surr)		Reco	very: 78 %	Limits: 44-120 %	20	05/27/21 13:22	EPA 8270E				
2-Fluorobiphenyl (Surr)			74 %	44-120 %		05/27/21 13:22	EPA 8270E				
Phenol-d6 (Surr)			31 %	10-133 %		05/27/21 13:22	EPA 8270E				
p-Terphenyl-d14 (Surr)			46 %	50-134 %		05/27/21 13:22	EPA 8270E	S-06			
2-Fluorophenol (Surr)			36 %	19-120 %		05/27/21 13:22	EPA 8270E				
2,4,6-Tribromophenol (Surr)			108 %	43-140 %	20	05/27/21 13:22	EPA 8270E				

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

		Total Meta	als by EPA 20	0.8 (ICPMS)			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(052421) (A1E0987-01)				Matrix: W				1,000
Batch: 1060183								
Chromium	4.14	0.500	1.00	ug/L	1	06/04/21 02:03	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	06/04/21 02:03	EPA 200.8	
Zinc	95.4	2.00	4.00	ug/L	1	06/04/21 02:03	EPA 200.8	
GW-2(052421) (A1E0987-02)				Matrix: W	ater			
Batch: 1060183								
Arsenic	0.566	0.500	1.00	ug/L	1	06/04/21 02:07	EPA 200.8	J
Cadmium	0.130	0.100	0.200	ug/L	1	06/04/21 02:07	EPA 200.8	J
Chromium	2.24	0.500	1.00	ug/L	1	06/04/21 02:07	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	06/04/21 02:07	EPA 200.8	
Zinc	312	2.00	4.00	ug/L	1	06/04/21 02:07	EPA 200.8	
OUP(052421) (A1E0987-03)				Matrix: W	ater			
Batch: 1060183								
Chromium	5.49	0.500	1.00	ug/L	1	06/04/21 02:12	EPA 200.8	
Mercury	ND	0.0400	0.0800	ug/L	1	06/04/21 02:12	EPA 200.8	
Zinc	104	2.00	4.00	ug/L	1	06/04/21 02:12	EPA 200.8	

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS) - Low Level													
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes					
SW-1(052421) (A1E0987-01)				Matrix: W	ater								
Batch: 1060937													
Arsenic	0.404	0.0250	0.0500	ug/L	1	06/22/21 23:11	EPA 200.8-LL						
Cadmium	0.0557	0.0250	0.0500	ug/L	1	06/22/21 23:11	EPA 200.8-LL						
DUP(052421) (A1E0987-03)				Matrix: W	ater								
Batch: 1060937													
Arsenic	0.549	0.0250	0.0500	ug/L	1	06/22/21 23:18	EPA 200.8-LL						
Cadmium	0.0632	0.0250	0.0500	ug/L	1	06/22/21 23:18	EPA 200.8-LL						

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

ANALYTICAL SAMPLE RESULTS

		Solid and	Moisture Det	terminations	3								
	Sample	Detection	Reporting			Date							
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes					
SW-1(052421) (A1E0987-01)				Matrix: Wa	ater								
Batch: 1051074	Batch: 1051074												
Total Suspended Solids	27.0	5.00	5.00	mg/L	1	06/01/21 09:46	SM 2540 D						
SW-2(052421) (A1E0987-02)				Matrix: Wa	ater								
Batch: 1051074													
Total Suspended Solids	ND	5.00	5.00	mg/L	1	06/01/21 09:46	SM 2540 D						
DUP(052421) (A1E0987-03)				Matrix: Wa	ater								
Batch: 1051074													
Total Suspended Solids	29.0	5.00	5.00	mg/L	1	06/01/21 09:46	SM 2540 D						

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1050917 - EPA 3510C (I	Fuels/Acid	Ext.)					Wat	er				
Blank (1050917-BLK1)			Prepared	1: 05/25/21	13:00 Anal	lyzed: 05/25/	/21 22:26					
NWTPH-Dx												
Diesel	ND	0.0909	0.182	mg/L	1							
Oil	ND	0.182	0.364	mg/L	1							
Surr: o-Terphenyl (Surr)		Reco	very: 84 %	Limits: 50	0-150 %	Dilı	ution: 1x					
LCS (1050917-BS1)			Prepared	1: 05/25/21	13:00 Ana	yzed: 05/25/	/21 22:48					
NWTPH-Dx												
Diesel	1.03	0.100	0.200	mg/L	1	1.25		82	59-115%			
Surr: o-Terphenyl (Surr)		Reco	very: 93 %	Limits: 50	0-150 %	Dilı	ution: 1x					
LCS Dup (1050917-BSD1)			Prepared	1: 05/25/21	13:00 Ana	lyzed: 05/25/	/21 23:09					Q-19
NWTPH-Dx												
Diesel	1.01	0.100	0.200	mg/L	1	1.25		81	59-115%	2	30%	
Surr: o-Terphenyl (Surr)		Reco	very: 91 %	Limits: 50	0-150 %	Dilı	tion: 1x					

Apex Laboratories

Philip Nevemberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 1060007 - EPA 5030B							Wat	er					
Blank (1060007-BLK1)			Prepared	1: 06/01/21	08:00 Ana	lyzed: 06/01/	21 10:50						
NWTPH-Gx (MS) Gasoline Range Organics	ND	0.0500	0.100	mg/L	1								
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 96 % 107 %	Limits: 5	0-150 % 0-150 %	Dilu	tion: 1x						
LCS (1060007-BS2)			Prepared	l: 06/01/21	08:00 Ana	lyzed: 06/01/	21 10:21						
NWTPH-Gx (MS) Gasoline Range Organics	0.467	0.0500	0.100	mg/L	1	0.500		93	80-120%				
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 93 % 100 %	Limits: 5	0-150 % 0-150 %	Dilu	tion: 1x						
Duplicate (1060007-DUP1)			Prepared	1: 06/01/21	10:05 Ana	lyzed: 06/01/	21 19:34						
QC Source Sample: Non-SDG (A1	E1073-05)												
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1		ND				30%		
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recov	ery: 104 % 115 %	Limits: 5	0-150 % 0-150 %	Dilu	tion: 1x						

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Dilution Analyte Result Limit Units Result % REC RPD Limit Amount Limits Limit Notes Batch 1060007 - EPA 5030B Water Blank (1060007-BLK1) Prepared: 06/01/21 08:00 Analyzed: 06/01/21 10:50 EPA 8260D ND 10.0 20.0 ug/L Acetone ND 1.00 2.00 1 Acrylonitrile ug/L Benzene ND 0.100 0.200 ug/L 1 Bromobenzene ND 0.250 0.500 1 ug/L Bromochloromethane ND 0.500 1.00 ug/L 1 ND Bromodichloromethane 0.500 1.00 1 ug/L Bromoform ND 1.00 1.00 1 ug/L Bromomethane 5.00 5.00 ND ug/L 1 2-Butanone (MEK) ND 5.00 10.0 ug/L 1 n-Butylbenzene ND 0.500 1.00 1 ug/L sec-Butylbenzene ND 0.500 1.00 ug/L 1 ND 0.500 tert-Butylbenzene 1.00 1 ug/L Carbon disulfide ND 5.00 10.0 ug/L 1 Carbon tetrachloride ND 0.500 1.00 ug/L 1 Chlorobenzene ND 0.250 0.500 ug/L 1 Chloroethane ND 5.00 5.00 ug/L 1 ---------Chloroform ND 0.500 1.00 ug/L 1 ND 2.50 5.00 Chloromethane 1 ug/L 2-Chlorotoluene ND 0.500 1.00 ug/L 1 4-Chlorotoluene ND 0.500 1.00 ug/L 1 ND Dibromochloromethane 0.500 1.00 ug/L 1 1,2-Dibromo-3-chloropropane ND 5.00 5.00 ug/L 1 1,2-Dibromoethane (EDB) ND 0.250 0.500 ug/L 1 ug/L Dibromomethane ND 0.500 1.00 1 0.500 0.250 1,2-Dichlorobenzene ND ug/L 1 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 1,4-Dichlorobenzene ND 0.250 0.500 ug/L 1 Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 1,1-Dichloroethane ND 0.200 0.400ug/L 1 0.200 1,2-Dichloroethane (EDC) ND 0.400 ug/L 1 1,1-Dichloroethene ND 0.200 0.400 ug/L 1 cis-1,2-Dichloroethene ND 0.200 0.400 ug/L 1 trans-1,2-Dichloroethene ND 0.200 0.400 ug/L 1

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 25 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1060007 - EPA 5030B							Wate	er				
Blank (1060007-BLK1)			Prepared	: 06/01/21	08:00 Anal	yzed: 06/01/	21 10:50					
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1							
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1							
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1							
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1							
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
Ethylbenzene	ND	0.250	0.500	ug/L	1							
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1							
2-Hexanone	ND	10.0	10.0	ug/L	1							
Isopropylbenzene	ND	0.500	1.00	ug/L	1							
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1							
Methylene chloride	ND	5.00	10.0	ug/L	1							
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1							
Naphthalene	ND	1.00	2.00	ug/L	1							
n-Propylbenzene	ND	0.250	0.500	ug/L	1							
Styrene	ND	0.500	1.00	ug/L	1							
1,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1							
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1							
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1							
Toluene	ND	0.500	1.00	ug/L	1							
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1							
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1							
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1							
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1							
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1							
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
Vinyl chloride	ND	0.200	0.400	ug/L	1							
m,p-Xylene	ND	0.500	1.00	ug/L	1							
o-Xylene	ND	0.250	0.500	ug/L	1							

Apex Laboratories

Surr: 1,4-Difluorobenzene (Surr)

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dilution: 1x

Philip Nerenberg, Lab Director

Page 26 of 54

Limits: 80-120 %

Recovery: 106 %



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

		,	Volatile Org	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1060007 - EPA 5030B							Wat	er				
Blank (1060007-BLK1)			Prepared	: 06/01/21	08:00 Ana	lyzed: 06/01	/21 10:50					
Surr: Toluene-d8 (Surr)		Recon	very: 102 %	Limits: 80	0-120 %	Dilı	ution: 1x					
4-Bromofluorobenzene (Surr)			96 %	80	0-120 %		"					
LCS (1060007-BS1)			Prepared	: 06/01/21	08:00 Ana	lyzed: 06/01	/21 09:49					
EPA 8260D												
Acetone	33.1	10.0	20.0	ug/L	1	40.0		83	80-120%			
Acrylonitrile	19.1	1.00	2.00	ug/L	1	20.0		96	80-120%			
Benzene	20.9	0.100	0.200	ug/L	1	20.0		104	80-120%			
Bromobenzene	19.2	0.250	0.500	ug/L	1	20.0		96	80-120%			
Bromochloromethane	21.1	0.500	1.00	ug/L	1	20.0		105	80-120%			
Bromodichloromethane	19.5	0.500	1.00	ug/L	1	20.0		97	80-120%			
Bromoform	14.1	1.00	1.00	ug/L	1	20.0		70	80-120%			Q-:
Bromomethane	18.5	5.00	5.00	ug/L	1	20.0		92	80-120%			
2-Butanone (MEK)	37.3	5.00	10.0	ug/L	1	40.0		93	80-120%			
n-Butylbenzene	22.9	0.500	1.00	ug/L	1	20.0		114	80-120%			
sec-Butylbenzene	20.0	0.500	1.00	ug/L	1	20.0		100	80-120%			
tert-Butylbenzene	19.0	0.500	1.00	ug/L	1	20.0		95	80-120%			
Carbon disulfide	20.8	5.00	10.0	ug/L	1	20.0		104	80-120%			
Carbon tetrachloride	17.9	0.500	1.00	ug/L	1	20.0		90	80-120%			
Chlorobenzene	19.5	0.250	0.500	ug/L	1	20.0		97	80-120%			
Chloroethane	17.3	5.00	5.00	ug/L	1	20.0		87	80-120%			
Chloroform	20.2	0.500	1.00	ug/L	1	20.0		101	80-120%			
Chloromethane	19.2	2.50	5.00	ug/L	1	20.0		96	80-120%			
2-Chlorotoluene	20.7	0.500	1.00	ug/L	1	20.0		103	80-120%			
4-Chlorotoluene	21.5	0.500	1.00	ug/L	1	20.0		107	80-120%			
Dibromochloromethane	18.0	0.500	1.00	ug/L	1	20.0		90	80-120%			
1,2-Dibromo-3-chloropropane	15.5	5.00	5.00	ug/L	1	20.0		77	80-120%			Q-:
1,2-Dibromoethane (EDB)	19.3	0.250	0.500	ug/L	1	20.0		96	80-120%			
Dibromomethane	19.7	0.500	1.00	ug/L	1	20.0		99	80-120%			
1,2-Dichlorobenzene	19.7	0.250	0.500	ug/L	1	20.0		99	80-120%			
1,3-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0		103	80-120%			
1,4-Dichlorobenzene	18.6	0.250	0.500	ug/L	1	20.0		93	80-120%			
Dichlorodifluoromethane	19.8	0.500	1.00	ug/L	1	20.0		99	80-120%			
1,1-Dichloroethane	20.3	0.200	0.400	ug/L	1	20.0		101	80-120%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS Volatile Organic Compounds by EPA 8260D

Detection Reporting Spike Source % REC **RPD** % REC Analyte Result Ĺimit Units Dilution Amount Result Limits RPD Limit Notes Limit Batch 1060007 - EPA 5030B Water

Batch 1060007 - EPA 5030B							vvai	er			
LCS (1060007-BS1)			Prepared:	06/01/21 08	:00 Ana	lyzed: 06/01/	21 09:49				
1,2-Dichloroethane (EDC)	19.4	0.200	0.400	ug/L	1	20.0		97	80-120%	 	
1,1-Dichloroethene	19.9	0.200	0.400	ug/L	1	20.0		100	80-120%	 	
cis-1,2-Dichloroethene	20.1	0.200	0.400	ug/L	1	20.0		101	80-120%	 	
trans-1,2-Dichloroethene	19.1	0.200	0.400	ug/L	1	20.0		95	80-120%	 	
1,2-Dichloropropane	19.1	0.250	0.500	ug/L	1	20.0		96	80-120%	 	
1,3-Dichloropropane	19.5	0.500	1.00	ug/L	1	20.0		98	80-120%	 	
2,2-Dichloropropane	23.1	0.500	1.00	ug/L	1	20.0		116	80-120%	 	
1,1-Dichloropropene	21.3	0.500	1.00	ug/L	1	20.0		107	80-120%	 	
cis-1,3-Dichloropropene	18.6	0.500	1.00	ug/L	1	20.0		93	80-120%	 	
trans-1,3-Dichloropropene	18.5	0.500	1.00	ug/L	1	20.0		92	80-120%	 	
Ethylbenzene	20.6	0.250	0.500	ug/L	1	20.0		103	80-120%	 	
Hexachlorobutadiene	24.0	2.50	5.00	ug/L	1	20.0		120	80-120%	 	
2-Hexanone	30.2	10.0	10.0	ug/L	1	40.0		76	80-120%	 	Q-55
Isopropylbenzene	19.0	0.500	1.00	ug/L	1	20.0		95	80-120%	 	
4-Isopropyltoluene	19.6	0.500	1.00	ug/L	1	20.0		98	80-120%	 	
Methylene chloride	19.3	5.00	10.0	ug/L	1	20.0		97	80-120%	 	
4-Methyl-2-pentanone (MiBK)	34.4	5.00	10.0	ug/L	1	40.0		86	80-120%	 	
Methyl tert-butyl ether (MTBE)	19.5	0.500	1.00	ug/L	1	20.0		98	80-120%	 	
Naphthalene	15.9	1.00	2.00	ug/L	1	20.0		80	80-120%	 	
n-Propylbenzene	21.2	0.250	0.500	ug/L	1	20.0		106	80-120%	 	
Styrene	18.0	0.500	1.00	ug/L	1	20.0		90	80-120%	 	
1,1,1,2-Tetrachloroethane	18.0	0.200	0.400	ug/L	1	20.0		90	80-120%	 	
1,1,2,2-Tetrachloroethane	17.7	0.250	0.500	ug/L	1	20.0		89	80-120%	 	
Tetrachloroethene (PCE)	20.4	0.200	0.400	ug/L	1	20.0		102	80-120%	 	
Toluene	19.2	0.500	1.00	ug/L	1	20.0		96	80-120%	 	
1,2,3-Trichlorobenzene	20.9	1.00	2.00	ug/L	1	20.0		104	80-120%	 	
1,2,4-Trichlorobenzene	19.7	1.00	2.00	ug/L	1	20.0		99	80-120%	 	
1,1,1-Trichloroethane	19.5	0.200	0.400	ug/L	1	20.0		98	80-120%	 	
1,1,2-Trichloroethane	19.1	0.250	0.500	ug/L	1	20.0		95	80-120%	 	
Trichloroethene (TCE)	20.0	0.200	0.400	ug/L	1	20.0		100	80-120%	 	
Trichlorofluoromethane	20.6	1.00	2.00	ug/L	1	20.0		103	80-120%	 	
1,2,3-Trichloropropane	19.0	0.500	1.00	ug/L	1	20.0		95	80-120%	 	
1,2,4-Trimethylbenzene	19.2	0.500	1.00	ug/L	1	20.0		96	80-120%	 	
1,3,5-Trimethylbenzene	19.3	0.500	1.00	ug/L	1	20.0		96	80-120%	 	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 28 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce Circle Project Number: BCSAmerica-1-02 Report ID: Wilsonville, OR 97070 Project Manager: Kyle Haggart A1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D													
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 1060007 - EPA 5030B							Wat	er					
LCS (1060007-BS1)			Prepared	l: 06/01/21	08:00 Anal	lyzed: 06/01	/21 09:49						
/inyl chloride	18.7	0.200	0.400	ug/L	1	20.0		94	80-120%				
n,p-Xylene	39.0	0.500	1.00	ug/L	1	40.0		98	80-120%				
-Xylene	17.7	0.250	0.500	ug/L	1	20.0		89	80-120%				
urr: 1,4-Difluorobenzene (Surr)		Recon	very: 100 %	Limits: 80)-120 %	Dilı	ution: 1x						
Toluene-d8 (Surr)			99 %	80	-120 %		"						
4-Bromofluorobenzene (Surr)			96 %	80	-120 %		"						
Ouplicate (1060007-DUP1)			Prepared	l: 06/01/21	10:05 Anal	lyzed: 06/01	/21 19:34						
OC Source Sample: Non-SDG (A1	E1073-05)												
Acetone	ND	10.0	20.0	ug/L	1		ND				30%		
Acrylonitrile	ND	1.00	2.00	ug/L	1		ND				30%		
Benzene	ND	0.100	0.200	ug/L	1		ND				30%		
Bromobenzene	ND	0.250	0.500	ug/L	1		ND				30%		
Bromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%		
Bromodichloromethane	ND	0.500	1.00	ug/L	1		ND				30%		
Bromoform	ND	1.00	1.00	ug/L	1		ND				30%		
Bromomethane	ND	5.00	5.00	ug/L	1		ND				30%		
-Butanone (MEK)	ND	5.00	10.0	ug/L	1		ND				30%		
-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%		
ec-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%		
ert-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%		
Carbon disulfide	ND	5.00	10.0	ug/L	1		ND				30%		
Carbon tetrachloride	ND	0.500	1.00	ug/L	1		ND				30%		
Chlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%		
Chloroethane	ND	5.00	5.00	ug/L	1		ND				30%		
Chloroform	ND	0.500	1.00	ug/L	1		ND				30%		
Chloromethane	ND	2.50	5.00	ug/L	1		ND				30%		
-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%		
-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%		
Dibromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%		
,2-Dibromo-3-chloropropane	ND	5.00	5.00	ug/L	1		ND				30%		
,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1		ND				30%		
Dibromomethane	ND	0.500	1.00	ug/L	1		ND				30%		
,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%		

Apex Laboratories

Philip Nevenberg

 ${\it The results in this report apply to the samples analyzed in accordance with the chain of}$ custody document. This analytical report must be reproduced in its entirety.

Page 29 of 54 Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source % REC Analyte Result Units Dilution RPD Limit Limit Amount Result Limits Limit Notes Batch 1060007 - EPA 5030B Water **Duplicate (1060007-DUP1)** Prepared: 06/01/21 10:05 Analyzed: 06/01/21 19:34 QC Source Sample: Non-SDG (A1E1073-05) 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 ND 30% ND 0.250 0.500 1,4-Dichlorobenzene ug/L 1 ND 30% Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 ND 30% 1,1-Dichloroethane ND 0.200 0.400ug/L 1 ND 30% 1,2-Dichloroethane (EDC) ND 0.200 0.400 1 ND 30% ug/L ---ND 0.200 ND 1,1-Dichloroethene 0.400 ug/L 1 30% cis-1,2-Dichloroethene ND 0.200 0.400ug/L 1 ND 30% trans-1,2-Dichloroethene ND ND 30% 0.200 0.400 ug/L 1 1,2-Dichloropropane ND 0.250 0.500 ug/L 1 ND 30% 1,3-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% 2,2-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 ND 30% 1,1-Dichloropropene ug/L 1 cis-1,3-Dichloropropene ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 ND 30% trans-1,3-Dichloropropene ug/L 1 0.250 Ethylbenzene ND 0.500 ug/L 1 ND 30% Hexachlorobutadiene ND 2.50 5.00 ug/L 1 ND 30% 2-Hexanone ND 10.0 10.0 ug/L 1 ND 30% ND 0.500 ND 30% Isopropylbenzene 1.00 1 ug/L ND 4-Isopropyltoluene 0.500 1.00 ug/L 1 ND 30% ND 10.0 Methylene chloride 5.00 ND 30% ug/L 1 4-Methyl-2-pentanone (MiBK) ND ND 5.00 10.0 ug/L 1 30% Methyl tert-butyl ether (MTBE) ND 0.500 1.00 ug/L 1 ND ---30% Naphthalene ND 1.00 2.00 ug/L 1 ND 30% ND ND 30% n-Propylbenzene 0.250 0.500 ug/L 1 ND 0.500 1.00 ND 30% Styrene ug/L 1 ND 1,1,1,2-Tetrachloroethane 0.200 0.400 ND 30% ug/L 1 1,1,2,2-Tetrachloroethane ND 0.250 0.500 ND 30% ug/L 1 Tetrachloroethene (PCE) ug/L ND 0.200 0.400 1 ---ND 30% ND 0.500 1.00 ug/L 1 ND 30% 1,2,3-Trichlorobenzene ND 1.00 2.00 ND 30% ug/L 1 ---1,2,4-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 30% ND 0.200 0.400 ND 1,1,1-Trichloroethane 1 30% ug/L 1,1,2-Trichloroethane ND 0.250 0.500 ug/L 1 ND 30%

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 30 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

			Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1060007 - EPA 5030B							Wat	er				
Duplicate (1060007-DUP1)			Prepared	1: 06/01/21	10:05 Ana	lyzed: 06/01	/21 19:34					
QC Source Sample: Non-SDG (A1	E1073-05)											
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1		ND				30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1		ND				30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1		ND				30%	
m,p-Xylene	ND	0.500	1.00	ug/L	1		ND				30%	
o-Xylene	ND	0.250	0.500	ug/L	1		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 111 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			102 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			93 %	80	0-120 %		"					
QC Source Sample: SW-2(052421) EPA 8260D	(A1E0987-	-02)										
Acetone	52.2	10.0	20.0	ug/L	1	40.0	ND	130	39-160%			
Acrylonitrile	23.5	1.00	2.00	ug/L	1	20.0	ND		63-135%			
Benzene	23.6	0.100	0.200	ug/L	1	20.0	ND		79-120%			
Bromobenzene	22.2	0.100	0.500	ug/L	1	20.0	ND		80-120%			
Bromochloromethane	23.6	0.500	1.00	ug/L	1	20.0	ND		78-123%			
Bromodichloromethane	22.4	0.500	1.00	ug/L ug/L	1	20.0	ND ND		79-125%			
Bromoform	16.3	1.00	1.00	ug/L	1	20.0	ND		66-130%			O-5
Bromomethane	21.9	5.00	5.00	ug/L	1	20.0	ND		53-141%			~ ~ ~
2-Butanone (MEK)	47.0	5.00	10.0	ug/L	1	40.0	ND		56-143%			
n-Butylbenzene	24.8	0.500	1.00	ug/L	1	20.0	ND		75-128%			
sec-Butylbenzene	22.4	0.500	1.00	ug/L	1	20.0	ND		77-126%			
tert-Butylbenzene	21.3	0.500	1.00	ug/L	1	20.0	ND		78-124%			
Carbon disulfide	23.8	5.00	10.0	ug/L	1	20.0	ND		64-133%			
Carbon tetrachloride	20.3	0.500	1.00	ug/L	1	20.0	ND		72-136%			
Chlorobenzene	22.0	0.250	0.500	ug/L	1	20.0	ND		80-120%			
Chloroethane	20.9	5.00	5.00	ug/L	1	20.0	ND		60-138%			
Chloroform	23.3	0.500	1.00	ug/L	1	20.0	ND	116	79-124%			
Chloromethane	21.8	2.50	5.00	ug/L	1	20.0	ND	109	50-139%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1060007 - EPA 5030B Water Matrix Spike (1060007-MS1) Prepared: 06/01/21 10:05 Analyzed: 06/01/21 16:10 QC Source Sample: SW-2(052421) (A1E0987-02) 2-Chlorotoluene 0.500 1.00 ug/L 1 20.0 ND 119 79-122% 0.500 1.00 20.0 4-Chlorotoluene 24.4 ug/L 1 ND 122 78-122% ug/L Dibromochloromethane 20.9 0.500 1.00 1 20.0 ND 104 74-126% O-54c 1,2-Dibromo-3-chloropropane 19.1 5.00 5.00 ug/L 1 20.0 ND 96 62-128% 1,2-Dibromoethane (EDB) 22.2 0.250 0.500 1 20.0 ND 111 77-121% ug/L ---Dibromomethane 22.4 0.500 1.00 20.0 ND 79-123% ug/L 1 112 ug/L 1,2-Dichlorobenzene 22.9 0.250 0.500 1 20.0 ND 114 80-120% 0.500 20.0 ND 119 80-120% 1.3-Dichlorobenzene 23.8 0.250 ug/L 1 1,4-Dichlorobenzene 21.6 0.250 0.500 ug/L 1 20.0 ND 108 79-120% Dichlorodifluoromethane 21.2 0.500 1.00 ug/L 1 20.0 ND 106 32-152% 1,1-Dichloroethane 23.0 0.200 0.400 ug/L 1 20.0 ND 115 77-125% 1,2-Dichloroethane (EDC) 22.3 0.200 0.400 20.0 ND 112 73-128% ug/L 1 20.0 1,1-Dichloroethene 23.6 0.200 0.400 ug/L 1 ND 118 71-131% cis-1,2-Dichloroethene 20.0 22.4 0.200 0.400 ND 112 78-123% ug/L 1 ug/L trans-1,2-Dichloroethene 22.5 0.200 0.400 1 20.0 ND 112 75-124% 1,2-Dichloropropane 21.9 0.250 0.500 ug/L 1 20.0 ND 109 78-122% ___ 1,3-Dichloropropane 22.3 0.500 1.00 ug/L 1 20.0 ND 111 80-120% 24.0 0.500 20.0 ND 120 60-139% 2,2-Dichloropropane 1.00 1 ug/L 23.4 20.0 ND 117 79-125% 1,1-Dichloropropene 0.500 1.00 ug/L 1 0.500 1.00 20.0 cis-1,3-Dichloropropene 17.2 ND 86 75-124% ug/L 1 trans-1,3-Dichloropropene 0.500 20.0 ND 100 73-127% 20.1 1.00 ug/L 1 23.0 0.250 Ethylbenzene 0.500 ug/L 1 20.0 ND 115 79-121% ---Hexachlorobutadiene 24.7 2.50 5.00 ug/L 1 20.0 ND 123 66-134% 2-Hexanone 37.4 10.0 ug/L 40.0 ND 93 57-139% Q-54d 10.0 1 ---20.6 0.500 1.00 20.0 ND 103 72-131% Isopropylbenzene ug/L 1 20.0 107 21.4 0.500 1.00 ND 77-127% 4-Isopropyltoluene ug/L 1 Methylene chloride 21.8 5.00 10.0 20.0 ND 109 74-124% ug/L 1 40.0 ND 67-130% 4-Methyl-2-pentanone (MiBK) 41.6 5.00 10.0 ug/L 1 104 Methyl tert-butyl ether (MTBE) 21.5 0.500 1.00 ug/L 1 20.0 ND 108 71-124% Naphthalene 18.2 1.00 2.00 1 20.0 ND 91 61-128% ug/L n-Propylbenzene 24.3 0.250 0.500 1 20.0 ND 122 76-126% ug/L 0.500 1.00 20.0 ND 101 Styrene 20.3 1 78-123% ug/L ---

Apex Laboratories

Philip Menherg

1,1,1,2-Tetrachloroethane

21.2

0.200

0.400

ug/L

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

106

78-124%

ND

Philip Nerenberg, Lab Director

Page 32 of 54

1

20.0



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1060007 - EPA 5030B Water Matrix Spike (1060007-MS1) Prepared: 06/01/21 10:05 Analyzed: 06/01/21 16:10 QC Source Sample: SW-2(052421) (A1E0987-02) 20.0 1,1,2,2-Tetrachloroethane 21.7 0.250 0.500 ug/L 1 ND 109 71-121% 0.200 0.400 20.0 ND Tetrachloroethene (PCE) 21.8 ug/L 1 109 74-129% 20.0 80-121% Toluene 21.5 0.500 1.00 ug/L 1 ND 108 1,2,3-Trichlorobenzene 23.4 1.00 2.00 ug/L 1 20.0 ND 117 69-129% 1,2,4-Trichlorobenzene 21.7 1.00 2.00 ug/L 1 20.0 ND 108 69-130% 20.0 1,1,1-Trichloroethane 22.0 0.200 0.400 ND 110 74-131% ug/L 1 20.0 80-120% 1,1,2-Trichloroethane 21.7 0.250 0.500 ug/L 1 ND 108 Trichloroethene (TCE) 22.0 0.200 0.40020.0 ND 110 79-123% ug/L 1 20.0 Trichlorofluoromethane 23.6 1.00 2.00 ug/L 1 ND 118 65-141% 1,2,3-Trichloropropane 23.3 0.500 1.00 ug/L 1 20.0 ND 116 73-122% 1,2,4-Trimethylbenzene 21.7 0.500 1.00 ug/L 1 20.0 ND 109 76-124% 20.0 1,3,5-Trimethylbenzene 22.0 0.500 1.00 ND 110 75-124% ug/L 1 20.7 0.200 20.0 ND 103 58-137% Vinyl chloride 0.400 ug/L 1 1.00 40.0 108 m,p-Xylene 43.3 0.500 ND 80-121% ug/L 1 0.250 0.500 78-122% o-Xylene 19.7 ug/L Surr: 1,4-Difluorobenzene (Surr) Recovery: 100 % Limits: 80-120 % Dilution: 1x 97% Toluene-d8 (Surr) 80-120 % 4-Bromofluorobenzene (Surr) 96 % 80-120 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 33 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

		Vo	latile Orga	nic Com	pounds b	y EPA 826	SOD SIM					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1060197 - EPA 5030B							Wat	er				
Blank (1060197-BLK1)			Prepared	: 06/03/21	17:00 Anal	yzed: 06/03/	/21 18:50					
EPA 8260D SIM												
Benzene	ND	0.0500	0.100	ug/L	1							
Toluene	ND	0.0500	0.100	ug/L	1							
Ethylbenzene	ND	0.0500	0.100	ug/L	1							
m,p-Xylene	ND	0.200	0.200	ug/L	1							
o-Xylene	ND	0.100	0.100	ug/L	1							
1,2,4-Trimethylbenzene	ND	0.100	0.100	ug/L	1							
1,3,5-Trimethylbenzene	ND	0.100	0.100	ug/L	1							
Chloroform	ND	0.0500	0.100	ug/L	1							
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1							
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1							
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1							
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1							
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
cis-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
trans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1							
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1							
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1							
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1							
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1							
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1							
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1							
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L ug/L	1							
Vinyl chloride	ND	0.0100	0.0200	ug/L	1							
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L ug/L	1							
Surr: 1,4-Difluorobenzene (Surr)	- 1.2		very: 98%	Limits: 80		Dilı	ıtion: 1x					
Toluene-d8 (Surr)		Reco	96 %)-120 %)-120 %	טווו	uion. 1x					
4-Bromofluorobenzene (Surr)			98 %)-120 %)-120 %		"					
4-ыготојшоговепzепе (SUFF)			90 70	80	1-120 70							
LCS (1060197-BS1)			Prepared	: 06/03/21	17:00 Anal	yzed: 06/03/	/21 17:52					
EPA 8260D SIM												
Benzene	0.191	0.0500	0.100	ug/L	1	0.200			80-120%			
Toluene	0.176	0.0500	0.100	ug/L	1	0.200		88	80-120%			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

		Vo	latile Orga	nic Com _l	pounds b	y EPA 826	SOD SIM					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1060197 - EPA 5030B							Wate	er				
LCS (1060197-BS1)			Prepared	: 06/03/21	17:00 Anal	yzed: 06/03/	/21 17:52					
Ethylbenzene	0.162	0.0500	0.100	ug/L	1	0.200		81	80-120%			<u>—</u> ——
n,p-Xylene	0.314	0.200	0.200	ug/L	1	0.400		79	80-120%			Q-5
-Xylene	0.158	0.100	0.100	ug/L	1	0.200		79	80-120%			Q-5
,2,4-Trimethylbenzene	0.153	0.100	0.100	ug/L	1	0.200		76	80-120%			Q-5
,3,5-Trimethylbenzene	0.152	0.100	0.100	ug/L	1	0.200		76	80-120%			Q-5
Chloroform	0.198	0.0500	0.100	ug/L	1	0.200		99	80-120%			
,2-Dibromo-3-chloropropane	0.204	0.100	0.200	ug/L	1	0.200		102	80-120%			
,2-Dibromoethane (EDB)	0.188	0.0100	0.0200	ug/L	1	0.200		94	80-120%			
,1-Dichloroethane	0.198	0.0100	0.0200	ug/L	1	0.200		99	80-120%			
,2-Dichloroethane (EDC)	0.206	0.0100	0.0200	ug/L	1	0.200		103	80-120%			
,1-Dichloroethene	0.185	0.0100	0.0200	ug/L	1	0.200		93	80-120%			
is-1,2-Dichloroethene	0.186	0.0100	0.0200	ug/L	1	0.200		93	80-120%			
rans-1,2-Dichloroethene	0.199	0.0100	0.0200	ug/L	1	0.200		99	80-120%			
,2-Dichloropropane	0.187	0.0100	0.0200	ug/L	1	0.200		94	80-120%			
is-1,3-Dichloropropene	0.181	0.0100	0.0200	ug/L	1	0.200		91	80-120%			
rans-1,3-Dichloropropene	0.188	0.0100	0.0200	ug/L	1	0.200		94	80-120%			
Methyl tert-butyl ether (MTBE)	0.177	0.0100	0.0200	ug/L	1	0.200		88	80-120%			
,1,2,2-Tetrachloroethane	0.205	0.0100	0.0200	ug/L	1	0.200		102	80-120%			
Tetrachloroethene (PCE)	0.191	0.0100	0.0200	ug/L	1	0.200		96	80-120%			
Frichloroethene (TCE)	0.191	0.0100	0.0200	ug/L	1	0.200		96	80-120%			
,2,3-Trichloropropane	0.211	0.0500	0.100	ug/L	1	0.200		105	80-120%			
/inyl chloride	0.188	0.0100	0.0200	ug/L	1	0.200		94	80-120%			
,1,2-Trichloroethane	0.238	0.0100	0.0200	ug/L	1	0.200		119	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 96 %	Limits: 80	7-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			96 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			96 %		0-120 %		"					
Ouplicate (1060197-DUP1)			Prepared	: 06/03/21	18:10 Anal	yzed: 06/03/	/21 21:59					
OC Source Sample: Non-SDG (A1)	E1052-11)		-									
Benzene	ND	0.0500	0.100	ug/L	1		ND				30%	
Coluene	0.0555	0.0500	0.100	ug/L	1		0.0563			1	30%	
Ethylbenzene	0.0619	0.0500	0.100	ug/L	1		0.0618			0.08	30%	
n,p-Xylene	ND	0.200	0.200	ug/L ug/L	1		0.0018 ND				30%	
n.p-xytene p-Xylene	ND ND	0.200	0.200	ug/L ug/L	1		ND ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

		_										
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1060197 - EPA 5030B							Wat	er				
Duplicate (1060197-DUP1)			Prepared	1: 06/03/21	18:10 Ana	yzed: 06/03	/21 21:59					
QC Source Sample: Non-SDG (A1	E1052-11)											
1,2,4-Trimethylbenzene	ND	0.100	0.100	ug/L	1		ND				30%	
1,3,5-Trimethylbenzene	ND	0.100	0.100	ug/L	1		ND				30%	
Chloroform	ND	0.0500	0.100	ug/L	1		ND				30%	
1,2-Dibromo-3-chloropropane	ND	0.100	0.200	ug/L	1		ND				30%	
1,2-Dibromoethane (EDB)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1-Dichloroethane	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,2-Dichloroethane (EDC)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1-Dichloroethene	ND	0.0100	0.0200	ug/L	1		ND				30%	
cis-1,2-Dichloroethene	0.102	0.0100	0.0200	ug/L	1		0.0964			6	30%	
rans-1,2-Dichloroethene	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,2-Dichloropropane	ND	0.0100	0.0200	ug/L	1		ND				30%	
cis-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1		ND				30%	
trans-1,3-Dichloropropene	ND	0.0100	0.0200	ug/L	1		ND				30%	
Methyl tert-butyl ether (MTBE)	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1,2,2-Tetrachloroethane	ND	0.0100	0.0200	ug/L	1		ND				30%	
Tetrachloroethene (PCE)	0.0645	0.0100	0.0200	ug/L	1		0.0655			2	30%	
Trichloroethene (TCE)	0.0395	0.0100	0.0200	ug/L	1		0.0394			0.08	30%	
1,2,3-Trichloropropane	ND	0.0500	0.100	ug/L	1		ND				30%	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1		ND				30%	
1,1,2-Trichloroethane	ND	0.0100	0.0200	ug/L	1		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 99 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			96 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			99 %	80	0-120 %		"					
Matrix Spike (1060197-MS1)			Prepared	l: 06/03/21	18:10 Anal	yzed: 06/03	/21 23:19					
QC Source Sample: SW-1(052421)	(A1E0987-	<u>-01)</u>										
EPA 8260D SIM												
Benzene	0.209	0.0500	0.100	ug/L	1	0.200	ND	104	79-120%			
Toluene	0.214	0.0500	0.100	ug/L	1	0.200	ND	107	80-121%			
Ethylbenzene	0.171	0.0500	0.100	ug/L	1	0.200	ND	85	79-121%			
m,p-Xylene	0.349	0.200	0.200	ug/L	1	0.400	ND	87	80-121%			
o-Xylene	0.167	0.100	0.100	ug/L	1	0.200	ND	84	78-122%			(
1,2,4-Trimethylbenzene	0.164	0.100	0.100	ug/L	1	0.200	ND	82	76-124%			(

Apex Laboratories

Philip Newberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 36 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM Detection % REC RPD Reporting Spike Source % REC Analyte Result Limit Units Dilution RPD Limit Amount Result Limits Limit Notes Batch 1060197 - EPA 5030B Water Matrix Spike (1060197-MS1) Prepared: 06/03/21 18:10 Analyzed: 06/03/21 23:19 QC Source Sample: SW-1(052421) (A1E0987-01) Q-54d 1,3,5-Trimethylbenzene 0.164 0.100 0.100 ug/L 1 0.200 ND 82 75-124% 0.219 0.0500 0.100 0.200 Chloroform ug/L 1 ND 110 79-124% 1,2-Dibromo-3-chloropropane 0.220 0.100 0.200 ug/L 1 0.200 ND 110 62-128% 1,2-Dibromoethane (EDB) 0.211 0.0100 0.0200 ug/L 1 0.200 ND 105 77-121% 1,1-Dichloroethane 0.217 0.0100 0.0200 ug/L 1 0.200 ND 109 77-125% 1,2-Dichloroethane (EDC) 0.223 0.0100 0.02000.200 ND 73-128% ug/L 1 111 1,1-Dichloroethene 0.240 0.01000.0200ug/L 1 0.200 ND 120 71-131% 0.195 0.0100 0.02000.200 ND 98 78-123% cis-1,2-Dichloroethene ug/L 1 trans-1,2-Dichloroethene 0.221 0.0100 0.0200 ug/L 1 0.200 ND 110 75-124% 1,2-Dichloropropane 0.207 0.0100 0.0200 ug/L 1 0.200 ND 104 78-122% cis-1,3-Dichloropropene 0.192 0.0100 0.0200 ug/L 1 0.200 ND 96 75-124% 0.0100 98 trans-1,3-Dichloropropene 0.197 0.02000.200 ND 73-127% ug/L 1 0.194 0.0100 0.200 97 71-124% Methyl tert-butyl ether (MTBE) 0.0200ug/L 1 ND 1,1,2,2-Tetrachloroethane 0.221 0.0100 0.0200 0.200 ND 111 71-121% ug/L 1 0.0100 0.0200 74-129% Tetrachloroethene (PCE) 0.212 ug/L 1 0.200 ND 106 Trichloroethene (TCE) 0.212 0.0100 0.0200 ug/L 1 0.200 ND 106 79-123% ___ 1,2,3-Trichloropropane 0.231 0.0500 0.100 ug/L 1 0.200 ND 116 73-122% Vinyl chloride 0.279 0.0100 0.0200 0.200 ND Q-01 ug/L 140 58-137% 1 ---1,1,2-Trichloroethane 0.245 0.0100 0.200 ND 80-120% Q-01 0.0200ug/L 122 Surr: 1,4-Difluorobenzene (Surr) Recovery: 98 % Limits: 80-120 % Dilution: 1x

80-120 %

80-120 %

99 %

97%

Apex Laboratories

Philip Nevenberg

Toluene-d8 (Surr)

4-Bromofluorobenzene (Surr)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 37 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

			Polychlor	inated B	iphenyls	by EPA 80	082A					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1060206 - EPA 3510C(Neutral pH	l)					Wat	er				
Blank (1060206-BLK1)			Prepared	: 06/04/21	07:12 Anal	lyzed: 06/04	/21 17:34					C-07
EPA 8082A												
Aroclor 1016	ND	0.0182	0.0364	ug/L	1							
Aroclor 1221	ND	0.0182	0.0364	ug/L	1							
Aroclor 1232	ND	0.0182	0.0364	ug/L	1							
Aroclor 1242	ND	0.0182	0.0364	ug/L	1							
Aroclor 1248	ND	0.0182	0.0364	ug/L	1							
Aroclor 1254	ND	0.0182	0.0364	ug/L	1							
Aroclor 1260	ND	0.0182	0.0364	ug/L	1							
Surr: Decachlorobiphenyl (Surr)		Reco	very: 76 %	Limits: 40	0-135 %	Dili	ution: 1x					
LCS (1060206-BS1)			Prepared	: 06/04/21	07:12 Ana	lyzed: 06/04	/21 17:52					C-07
EPA 8082A												
Aroclor 1016	1.48	0.0200	0.0400	ug/L	1	2.50		59	46-129%			
Aroclor 1260	1.61	0.0200	0.0400	ug/L	1	2.50		64	45-134%			
Surr: Decachlorobiphenyl (Surr)		Reco	very: 75 %	Limits: 40	0-135 %	Dili	ution: 1x					
LCS Dup (1060206-BSD1)			Prepared	: 06/04/21	07:12 Anal	lyzed: 06/04	/21 18:09					C-07, Q-19
EPA 8082A												
Aroclor 1016	1.66	0.0200	0.0400	ug/L	1	2.50		66	46-129%	12	30%	
Aroclor 1260	1.72	0.0200	0.0400	ug/L	1	2.50		69	45-134%	7	30%	
Surr: Decachlorobiphenyl (Surr)		Reco	very: 83 %	Limits: 40	0-135 %	Dili	ution: 1x					

Apex Laboratories

Philip Newsberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 38 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Analyte Result Limit Units Dilution Result % REC RPD Limit Amount Limits Limit Notes Batch 1050961 - EPA 3510C (Acid Extraction) Water Blank (1050961-BLK2) Prepared: 05/26/21 09:57 Analyzed: 05/26/21 19:35 EPA 8270E Acenaphthene ND 0.00909 0.0182 ug/L ND 0.00909 0.0182 ug/L 1 Acenaphthylene Anthracene ND 0.00909 0.0182 ug/L 1 Benz(a)anthracene ND 0.00909 0.01821 ug/L ND 0.0136 0.0273 ug/L 1 Benzo(a)pyrene 0.0136 0.0273 ug/L Benzo(b)fluoranthene ND 1 Benzo(k)fluoranthene ND 0.0136 0.0273 1 ug/L 0.00909 0.0182 ND Benzo(g,h,i)perylene ug/L 1 Chrysene ND 0.00909 0.0182 ug/L 1 Dibenz(a,h)anthracene ND 0.00909 0.0182 ug/L 1 Fluoranthene ND 0.009090.0182 ug/L 1 ND 0.00909 0.0182 Fluorene 1 ug/L Indeno(1,2,3-cd)pyrene ND 0.00909 0.0182 ug/L 1 ND 0.0182 0.0364 1-Methylnaphthalene ug/L 1 0.0182 2-Methylnaphthalene ND 0.0364 ug/L 1 Naphthalene 0.0666 0.0182 0.0364 ug/L 1 В ---------Phenanthrene ND 0.00909 0.0182 ug/L 1 0.00909 0.0182 Pyrene ND ug/L 1 Carbazole ND 0.0136 0.0273 ug/L 1 Dibenzofuran ND 0.00909 0.0182 ug/L 1 Bis(2-ethylhexyl)phthalate ND 0.182 0.364 ug/L 1 Butyl benzyl phthalate ND 0.182 0.364 ug/L 1 0.182 Diethylphthalate ND 0.364 ug/L 1 Dimethylphthalate ND 0.182 0.364 ug/L 1 ND 0.182 0.364 Di-n-butylphthalate ug/L 1 ug/L Di-n-octyl phthalate ND 0.182 0.364 1 Surr: Nitrobenzene-d5 (Surr) Recovery: 71% Limits: 44-120 % Dilution: 1x 2-Fluorobiphenyl (Surr) $60\,\%$ 44-120 % Phenol-d6 (Surr) 26 % 10-133 % 72 % p-Terphenyl-d14 (Surr) 50-134 % 2-Fluorophenol (Surr) 37% 19-120 % 2,4,6-Tribromophenol (Surr) 84 % 43-140 %

Apex Laboratories

Philip Menherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 39 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc.

Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

		Sei	mivolatile (Organic	Compour	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REG	% REC Limits	RPD	RPD Limit	Notes
Batch 1050961 - EPA 3510C (A	cid Extra	ction)					Wat	er				
LCS (1050961-BS2)			Prepared	: 05/26/21	09:57 Ana	lyzed: 05/26	/21 20:11					
EPA 8270E												
Acenaphthene	3.23	0.0400	0.0800	ug/L	4	4.00		81	47-122%			
Acenaphthylene	3.40	0.0400	0.0800	ug/L	4	4.00		85	41-130%			
Anthracene	3.49	0.0400	0.0800	ug/L	4	4.00		87	57-123%			
Benz(a)anthracene	3.55	0.0400	0.0800	ug/L	4	4.00		89	58-125%			
Benzo(a)pyrene	3.41	0.0600	0.120	ug/L	4	4.00		85	54-128%			
Benzo(b)fluoranthene	3.73	0.0600	0.120	ug/L	4	4.00		93	53-131%			
Benzo(k)fluoranthene	3.60	0.0600	0.120	ug/L	4	4.00		90	57-129%			
Benzo(g,h,i)perylene	3.46	0.0400	0.0800	ug/L	4	4.00		86	50-134%			
Chrysene	3.44	0.0400	0.0800	ug/L	4	4.00		86	59-123%			
Dibenz(a,h)anthracene	3.59	0.0400	0.0800	ug/L	4	4.00		90	51-134%			
Fluoranthene	3.72	0.0400	0.0800	ug/L	4	4.00		93	57-128%			
Fluorene	3.31	0.0400	0.0800	ug/L	4	4.00		83	52-124%			
Indeno(1,2,3-cd)pyrene	3.37	0.0400	0.0800	ug/L	4	4.00		84	52-134%			
1-Methylnaphthalene	3.15	0.0800	0.160	ug/L	4	4.00		79	41-120%			
2-Methylnaphthalene	3.15	0.0800	0.160	ug/L	4	4.00		79	40-121%			
Naphthalene	2.82	0.0800	0.160	ug/L	4	4.00		71	40-121%			
Phenanthrene	3.30	0.0400	0.0800	ug/L	4	4.00		82	59-120%			
Pyrene	3.71	0.0400	0.0800	ug/L	4	4.00		93	57-126%			
Carbazole	4.01	0.0600	0.120	ug/L	4	4.00		100	60-122%			
Dibenzofuran	3.29	0.0400	0.0800	ug/L	4	4.00		82	53-120%			
Bis(2-ethylhexyl)phthalate	3.88	0.800	1.60	ug/L	4	4.00		97	55-135%			
Butyl benzyl phthalate	3.88	0.800	1.60	ug/L	4	4.00		97	53-134%			
Diethylphthalate	3.55	0.800	1.60	ug/L	4	4.00		89	56-125%			
Dimethylphthalate	3.50	0.800	1.60	ug/L	4	4.00		87	45-127%			
Di-n-butylphthalate	3.83	0.800	1.60	ug/L	4	4.00		96	59-127%			
Di-n-octyl phthalate	3.98	0.800	1.60	ug/L	4	4.00		99	51-140%			
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 79 %	Limits: 44	4-120 %	Dilı	ution: 4x					
2-Fluorobiphenyl (Surr)			74 %	44	1-120 %		"					
Phenol-d6 (Surr)			27 %	10	0-133 %		"					
p-Terphenyl-d14 (Surr)			79 %	50	0-134 %		"					
2-Fluorophenol (Surr)			39 %	19	0-120 %		"					
2,4,6-Tribromophenol (Surr)			84 %	43	B-140 %		"					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Analyte Result Limit Units Dilution Amount Result % REC Limits RPD Limit Limit Notes Batch 1050961 - EPA 3510C (Acid Extraction) Water LCS Dup (1050961-BSD2) Prepared: 05/26/21 09:57 Analyzed: 05/26/21 20:47 Q-19 EPA 8270E Acenaphthene 3.24 0.0400 0.0800 ug/L 4 4.00 81 47-122% 0.3 30% 4 4.00 85 3.38 0.0400 0.0800 41-130% 0.6 30% Acenaphthylene ug/L ---Anthracene 3.45 0.0400 0.0800 ug/L 4 4.00 86 57-123% 1 30% Benz(a)anthracene 3.52 0.0400 0.0800 4 4.00 88 58-125% 0.8 30% ug/L 3.32 0.0600 0.120 4 4.00 83 54-128% 3 30% Benzo(a)pyrene ug/L 4 4.00 90 53-131% Benzo(b)fluoranthene 3.60 0.0600 0.120 ug/L 3 30% Benzo(k)fluoranthene 3.58 0.0600 0.120 4 4.00 89 57-129% 0.5 30% ug/L 0.0400 0.0800 4 4.00 3.45 86 50-134% 0.1 30% Benzo(g,h,i)perylene ug/L Chrysene 3.42 0.0400 0.0800 ug/L 4 4.00 85 59-123% 0.7 30% Dibenz(a,h)anthracene 3.65 0.0400 0.0800 4 4.00 91 51-134% 2 30% ug/L Fluoranthene 3.58 0.04000.0800 ug/L 4 4.00 90 57-128% 4 30% 3.39 0.0400 0.0800 4 4.00 85 52-124% 3 30% Fluorene ug/L 0.0400 Indeno(1,2,3-cd)pyrene 3.40 0.0800ug/L 4 4.00 85 52-134% 0.7 30% 3.20 0.0800 0.160 4 4.00 80 41-120% 2 30% 1-Methylnaphthalene ug/L 2-Methylnaphthalene 3.17 0.08000.160 ug/L 4 4.00 79 40-121% 0.6 30% Naphthalene 2.84 0.0800 0.160 ug/L 4 4.00 71 40-121% 0.7 30% В ---Phenanthrene 3.23 0.04000.0800 ug/L 4 4.00 81 59-120% 2 30% 3.59 0.0400 0.0800 ug/L 4 4.00 90 57-126% 3 30% Pyrene 99 Carbazole 3.95 0.06000.120 ug/L 4 4.00 60-122% 1 30% Dibenzofuran 3.33 0.0400 0.0800 ug/L 4 4.00 83 53-120% 1 30% 3.98 99 Bis(2-ethylhexyl)phthalate 0.800 1.60 ug/L 4 4.00 55-135% 3 30% Butyl benzyl phthalate 3.83 0.800 1.60 ug/L 4 4.00 96 53-134% 1 30% 0.800 Diethylphthalate 3.60 1.60 ug/L 4 4.00 90 56-125% 1 30% Dimethylphthalate 3.50 0.800 1.60 ug/L 4 4.00 87 45-127% 0.001 30% 3.82 0.800 1.60 4.00 Di-n-butylphthalate ug/L 4 96 59-127% 0.2 30% ug/L Di-n-octyl phthalate 3.89 0.800 1.60 4 51-140% 30% Surr: Nitrobenzene-d5 (Surr) Recovery: 84 % Limits: 44-120 % Dilution: 4x 2-Fluorobiphenyl (Surr) 77% 44-120 % Phenol-d6 (Surr) 32 % 10-133 % p-Terphenyl-d14 (Surr) 81% 50-134 % 2-Fluorophenol (Surr) 45 % 19-120 % 43-140 % 2,4,6-Tribromophenol (Surr) 82 %

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 41 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total N	letals by	EPA 200	.8 (ICPMS)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1060183 - EPA 3015A							Wat	er				
Blank (1060183-BLK1)			Prepared	: 06/03/21	14:38 Ana	lyzed: 06/04/	/21 00:06					
EPA 200.8												
Arsenic	ND	0.500	1.00	ug/L	1							
Cadmium	ND	0.100	0.200	ug/L	1							
Chromium	ND	0.500	1.00	ug/L	1							
Mercury	ND	0.0400	0.0800	ug/L	1							
Zinc	ND	2.00	4.00	ug/L	1							
LCS (1060183-BS1)			Prepared	: 06/03/21	14:38 Ana	lyzed: 06/04/	/21 00:11					
EPA 200.8												
Arsenic	55.9	0.500	1.00	ug/L	1	55.6		101	85-115%			
Cadmium	56.3	0.100	0.200	ug/L	1	55.6		101	85-115%			
Chromium	59.6	0.500	1.00	ug/L	1	55.6		107	85-115%			
Mercury	1.07	0.0400	0.0800	ug/L	1	1.11		97	85-115%			
Zinc	58.9	2.00	4.00	ug/L	1	55.6		106	85-115%			
Duplicate (1060183-DUP1)			Prepared	: 06/03/21	14:38 Anal	lyzed: 06/04/	/21 00:45					
QC Source Sample: Non-SDG (A1)	E0954-03)											
Arsenic	1.68	0.500	1.00	ug/L	1		1.70			1	20%	
Cadmium	ND	0.100	0.200	ug/L	1		ND				20%	
Chromium	6.22	0.500	1.00	ug/L	1		5.92			5	20%	
Mercury	ND	0.0400	0.0800	ug/L	1		ND				20%	
Zinc	32.7	2.00	4.00	ug/L	1		31.6			4	20%	
Matrix Spike (1060183-MS1)			Prepared	: 06/03/21	14:38 Anal	lyzed: 06/04/	/21 00:50					
QC Source Sample: Non-SDG (A1)	E0954-03)											
EPA 200.8												
Arsenic	58.4	0.500	1.00	ug/L	1	55.6	1.70	102	70-130%			
Cadmium	56.5	0.100	0.200	ug/L ug/L	1	55.6	ND	102	70-130%			
Chromium	65.1	0.500	1.00	ug/L ug/L	1	55.6	5.92	107	70-130%			
Mercury	1.06	0.0400	0.0800	ug/L	1	1.11	ND	96	70-130%			
Zinc	92.3	2.00	4.00	ug/L ug/L	1	55.6	31.6	109	70-130%			

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Menherg

Page 42 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

	Total Metals by EPA 200.8 (ICPMS)												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 1060183 - EPA 3015A							Wat	er					
Matrix Spike (1060183-MS2)			Prepared	: 06/03/21	14:38 Anal	yzed: 06/04	/21 02:17						
QC Source Sample: DUP(052421)	(A1E0987-	03)											
Arsenic	55.8	0.500	1.00	ug/L	1	55.6	ND	101	70-130%				
Cadmium	54.3	0.100	0.200	ug/L	1	55.6	ND	98	70-130%				
Chromium	63.1	0.500	1.00	ug/L	1	55.6	5.49	104	70-130%				
Mercury	1.10	0.0400	0.0800	ug/L	1	1.11	ND	99	70-130%				
Zinc	159	2.00	4.00	ug/L	1	55.6	104	98	70-130%				

Apex Laboratories

Philip Menterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

		To	tal Metals	by EPA	200.8 (ICP	MS) - Lov	v Level					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1060937 - EPA 3015A							Wat	er				
Blank (1060937-BLK1)			Prepared	06/22/21	12:27 Anal	yzed: 06/22	/21 21:06					
EPA 200.8-LL												
Arsenic	ND	0.0250	0.0500	ug/L	1							
Cadmium	ND	0.0250	0.0500	ug/L	1							
LCS (1060937-BS1)			Prepared:	: 06/22/21	12:27 Anal	yzed: 06/22	/21 21:27					
EPA 200.8-LL												
Arsenic	5.40	0.0250	0.0500	ug/L	1	5.56		97	85-115%			
Cadmium	5.25	0.0250	0.0500	ug/L	1	5.56		95	85-115%			
Duplicate (1060937-DUP1)			Prepared	: 06/22/21	12:27 Anal	yzed: 06/22	/21 21:41					
OC Source Sample: Non-SDG (A1)	E0630-01)											
Arsenic	16.3	0.0250	0.0500	ug/L	1		16.3			0.03	20%	
Cadmium	0.150	0.0250	0.0500	ug/L	1		0.143			5	20%	
Matrix Spike (1060937-MS1)			Prepared	: 06/22/21	12:27 Anal	yzed: 06/22	/21 21:47					
QC Source Sample: Non-SDG (A1)	E0630-01)											
EPA 200.8-LL												
Arsenic	21.6	0.0250	0.0500	ug/L	1	5.56	16.3	96	70-130%			
Cadmium	5.41	0.0250	0.0500	ug/L	1	5.56	0.143	95	70-130%			
Matrix Spike (1060937-MS2)			Prepared	: 06/22/21	17:28 Anal	yzed: 06/22	/21 23:25					
QC Source Sample: DUP(052421)	(A1E0987-	03)										
Arsenic	6.09	0.0250	0.0500	ug/L	1	5.56	0.549	100	70-130%			
Cadmium	5.34	0.0250	0.0500	ug/L	1	5.56	0.0632	95	70-130%			

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALITY CONTROL (QC) SAMPLE RESULTS

			Solid a	nd Mois	ture Dete	rmination	s					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 1051074 - Total Suspen	ded Solid	S					Wat	er				
Blank (1051074-BLK1)			Prepared	: 05/28/21	09:37 Ana	lyzed: 06/01	/21 09:46					
SM 2540 D Total Suspended Solids	ND	5.00	5.00	mg/L	1							
Duplicate (1051074-DUP1)			Prepared	: 05/28/21	09:37 Ana	lyzed: 06/01	/21 09:46					
QC Source Sample: Non-SDG (A)	IE0950-01R	E1)										
Total Suspended Solids	ND	5.00	5.00	mg/L	1		ND				10%	
Duplicate (1051074-DUP2)			Prepared	: 05/28/21	09:37 Ana	lyzed: 06/01	/21 09:46					
QC Source Sample: Non-SDG (A	IE1021-01)											
Total Suspended Solids	5.00	5.00	5.00	mg/L	1		ND				10%	Q-0
Reference (1051074-SRM1)			Prepared	: 05/28/21	09:37 Ana	lyzed: 06/01	/21 09:46					
<u>SM 2540 D</u>												
Total Suspended Solids	924			mg/L	1	951		97	87-116%			

Apex Laboratories

Philip Menberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 45 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

SAMPLE PREPARATION INFORMATION

		Diesel an	d/or Oil Hydrocarbor	s by NWTPH-Dx			
Prep: EPA 3510C (Fu	uels/Acid Ext.)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1050917							
A1E0987-01RE1	Water	NWTPH-Dx	05/24/21 09:30	05/25/21 13:32	1030 mL/5 mL	1000mL/5mL	0.97
A1E0987-02	Water	NWTPH-Dx	05/24/21 09:45	05/25/21 13:32	1050mL/5mL	1000mL/5mL	0.95
A1E0987-03RE1	Water	NWTPH-Dx	05/24/21 09:35	05/25/21 13:32	960mL/5mL	1000 mL/5 mL	1.04

	Gas	soline Range Hydrocart	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1060007							
A1E0987-01	Water	NWTPH-Gx (MS)	05/24/21 09:30	06/01/21 10:05	5mL/5mL	5mL/5mL	1.00
A1E0987-02	Water	NWTPH-Gx (MS)	05/24/21 09:45	06/01/21 10:05	5mL/5mL	5mL/5mL	1.00
A1E0987-03	Water	NWTPH-Gx (MS)	05/24/21 09:35	06/01/21 10:05	5mL/5mL	5mL/5mL	1.00

		Volatile	Organic Compounds	s by EPA 8260D			
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1060007							
A1E0987-01	Water	EPA 8260D	05/24/21 09:30	06/01/21 10:05	5mL/5mL	5mL/5mL	1.00
A1E0987-02	Water	EPA 8260D	05/24/21 09:45	06/01/21 10:05	5mL/5mL	5mL/5mL	1.00
A1E0987-03	Water	EPA 8260D	05/24/21 09:35	06/01/21 10:05	5mL/5mL	5mL/5mL	1.00

		Volatile Orç	ganic Compounds b	y EPA 8260D SIM	Sample Default RL l Initial/Final Initial/Final Fac 10 5mL/5mL 5mL/5mL 1.6									
Prep: EPA 5030B					Sample	Default	RL Prep							
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor							
Batch: 1060197														
A1E0987-01	Water	EPA 8260D SIM	05/24/21 09:30	06/03/21 18:10	5mL/5mL	5mL/5mL	1.00							
A1E0987-02	Water	EPA 8260D SIM	05/24/21 09:45	06/03/21 18:10	5mL/5mL	5mL/5mL	1.00							
A1E0987-03	Water	EPA 8260D SIM	05/24/21 09:35	06/03/21 18:10	5mL/5mL	5mL/5mL	1.00							
A1E0987-04	Water	EPA 8260D SIM	05/24/21 00:00	06/03/21 18:10	5mL/5mL	5mL/5mL	1.00							
A1E0987-05	Water	EPA 8260D SIM	05/24/21 00:00	06/03/21 18:10	5mL/5mL	5mL/5mL	1.00							
A1E0987-06	Water	EPA 8260D SIM	05/24/21 00:00	06/03/21 18:10	5mL/5mL	5mL/5mL	1.00							

Polychlorinated Biphenyls by EPA 8082A

Apex Laboratories

Philip Newsberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 46 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce Circle Project Number: BCSAmerica-1-02 Report ID: Wilsonville, OR 97070 Project Manager: Kyle Haggart A1E0987 - 07 01 21 2227

SAMPLE PREPARATION INFORMATION

		Polych	lorinated Biphenyls	oy EPA 8082A			
Prep: EPA 3510C (N	eutral pH)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1060206							
A1E0987-01	Water	EPA 8082A	05/24/21 09:30	06/04/21 07:12	940mL/2mL	1000mL/2mL	1.06
A1E0987-02	Water	EPA 8082A	05/24/21 09:45	06/04/21 07:12	1070mL/2mL	1000mL/2mL	0.94
A1E0987-03	Water	EPA 8082A	05/24/21 09:35	06/04/21 07:12	1000mL/2mL	1000mL/2mL	1.00
		Semivolati	ile Organic Compour	nds by EPA 8270E			
Prep: EPA 3510C (Ad	cid Extraction)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1050961			-	-			
A1E0987-01RE1	Water	EPA 8270E	05/24/21 09:30	05/26/21 14:16	1060mL/1mL	1000mL/1mL	0.94
A1E0987-02RE1	Water	EPA 8270E	05/24/21 09:45	05/26/21 14:16	1060mL/1mL	1000mL/1mL	0.94
A1E0987-03RE1	Water	EPA 8270E	05/24/21 09:35	05/26/21 14:16	1050mL/1mL	1000mL/1mL	0.95
		Tota	al Metals by EPA 200	.8 (ICPMS)			
Prep: EPA 3015A					Sample	Default	RL Pre
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1060183							
A1E0987-01	Water	EPA 200.8	05/24/21 09:30	06/03/21 14:38	45mL/50mL	45mL/50mL	1.00
A1E0987-02	Water	EPA 200.8	05/24/21 09:45	06/03/21 14:38	45mL/50mL	45mL/50mL	1.00
A1E0987-03	Water	EPA 200.8	05/24/21 09:35	06/03/21 14:38	45mL/50mL	45mL/50mL	1.00
		Total Meta	als by EPA 200.8 (IC	PMS) - Low Level			
Prep: EPA 3015A					Sample	Default	RL Pre
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1060937			1	1			
A1E0987-01	Water	EPA 200.8-LL	05/24/21 09:30	06/22/21 17:28	45mL/50mL	45mL/50mL	1.00
A1E0987-03	Water	EPA 200.8-LL	05/24/21 09:35	06/22/21 17:28	45mL/50mL	45mL/50mL	1.00
		Sol	id and Moisture Dete	erminations			
Prep: Total Suspende	ed Solids				Sample	Default	RL Pre
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 1051074				•			
A1E0987-01	Water	SM 2540 D	05/24/21 09:30	05/28/21 09:37			NA

custody document. This analytical report must be reproduced in its entirety.

Philip Menterg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

SAMPLE PREPARATION INFORMATION

		So	lid and Moisture Dete	erminations			
Prep: Total Suspen	ded Solids				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A1E0987-02	Water	SM 2540 D	05/24/21 09:45	05/28/21 09:37			NA
A1E0987-03	Water	SM 2540 D	05/24/21 09:35	05/28/21 09:37			NA

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

ex Laborat	<u>ories</u>
В	Analyte detected in an associated blank at a level above the MRL. (See Notes and Conventions below.)
C-07	Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
F-11	The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
F-17	No fuel pattern detected. The Diesel result represents carbon range C12 to C24, and the Oil result represents >C24 to C40.
F-24	The chromatographic pattern does not resemble the fuel standard used for quantitation. The Diesel result represents carbon range C12 to C24, and the Oil result represents >C24 to C40.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-05	Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
Q-54	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +-1%. The results are reported as Estimated Values.
Q-54a	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -1%. The results are reported as Estimated Values.
Q-54b	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -10%. The results are reported as Estimated Values.
Q-54c	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -3%. The results are reported as Estimated Values.
Q-54d	Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -4%. The results are reported as Estimated Values.
Q-55	Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.
R-04	Reporting levels elevated due to preparation and/or analytical dilution necessary for analysis.

Apex Laboratories

Philip Nevenberg

S-06

V-01

Surrogate recovery is outside of established control limits.

Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 49 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

"___" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

"---" QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

- -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 50 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories

Matrix Analysis TNI_ID Analyte TNI_ID Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Philip Nevenberg

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 52 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

Company: Geo Design		roject Mg	Project Mgr. Kyle		Hassert	5			Proje	Project Name:	me:							- A	roject	**	CS #	34	Project #: BCS Awar's ca-1-02	24-1	١,
Address: 9450 Sw Comuerce	- 1	S,			문	Phone: 503	03	396	18	S E	mail:	3	4	\$	70	15,	968 8787 Email: Kark-Haygort D. N.J. Conc	<u>E</u>	PO #						
Sampled by: Tim Hoirley														ANA	LYSI	SREC	ANALYSIS REQUEST								
Site Location:			_								\vdash	18		<u> </u>			,8M ,IT,					<u> </u>	54		
⊕ wa ca				540	en:								77 1170		((£1)	N SV			Sun		830V	nas		
AK ID				114143			xg	X							8) slate	etals (Ba, Be, Fe, Pb K, Se,			[m]			såsn.		
AL LIVE	# OI 8A	ATE	IME	MATRIX	OE CON	-H4TW	-HdLM	320 BLE	390 RBD	olaH 092	OA 097	MIS 072	087 PCB	189 Pest	CEV W	riority N	SP, (AS)		CLP Me	SVIKO	151	Ntha	1 12.50		ehive
(12h750)1-MS	_	_	1_	+	+		1 X	8	-		-	+ -	- '	-	+	1	×					d/x			'V
Sw. 2 (052421)	1.	5/24 945		3		X	×		†		X	×	×				\ <u> \</u>		1	×	X	1	. ×		
Dup(052421)	N	346 42/5	W 25			×	18		†	1	X	_	X		_		×	+			X	X	-		
1124250181-1-MS	~	42/5	_	7	-				1		×	-	-						1	1	+	+	-		
5W-7_T8[052471]	5	4415	-	7						^	×			<u></u>					 	+	1	\vdash	-		
DMP-TB(052421)	3	6116	+-	78 2		-					×							-		+		+-	-		
					-	-			\Box	+	+	-	++	1				\vdash	+	+	+	+-+	+		
	+	_		+	_	+				-	+		+						-				_		
	-	+	-		+	-			1	+	+	+	-	_				+	+	+-	+-	+	+		1
Normal Turn Around Time (TAT) =(10 Business Days	Aroun	d Time (7	(AT)	Busin.	ss Day	0				S	PECL	SPECIAL INSTRUCTIONS	STRU	CTIO	NS:			1	1	-	1	┨			1
	1 Day	7	2 Day	3 Day	ay						Š	Low Levels	3	-	2	Please	e)								
(A) Requested (circle)	4 DAY		5 DAY		Other:																				
SAMPL	ES ARE	HELD F	SAMPLES ARE HELD FOR 30 DAYS	YS						Г															
Signature: Signat	Date: 5/11/1		RECEIVED BY:	BY:	N.	- E	Date O	S 24	7	S. S.	RELINQ Signature:	RELINQUISHED BY: Signature:	ED BY				Date		RECEIN Signature	RECEIVED BY: Signature:	i.		Date:		
Printed Name:	Time: 1700	16.		MW	3		Time	2		ď.	Printed Name	Name:					Time:		Printed Name	Name:			Time:		
Company:		3	Company:	3	200	0	1			0	Company:	si.						0	Company:	35.					

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevenberg

Page 53 of 54



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

GeoDesign, Inc. Project: Former Automatic Vending Co.

9450 SW Commerce CircleProject Number:BCSAmerica-1-02Report ID:Wilsonville, OR 97070Project Manager:Kyle HaggartA1E0987 - 07 01 21 2227

Client: Glodesign	Element WO#: A1 FO 987
Project/Project #: BCSA	
Delivery Info: Date/time received: 5/20 Delivered by: ApexC	HU @ 1701) By: 60 Client X ESS FedEx UPS Swift Senvoy SDS Other ate/time inspected: 5141 @ 1715 By: 38
Temperature (°C) Received on ice? (Y/N) Temp. blanks? (Y/N)	2.9
Ice type: (Gel/Real/Other) Condition:	reactso reactso realtso
Out of temperature sample Sample Inspection: All samples intact? Yes veplaced in lab. Bottle labels/COCs agree? GW-1 (052421), Transcorrence	of temperature samples? Yes (No) es form initiated? Yes (No) textime inspected: 512711 @ 1158 By: MUL SIMP (D) Comments: 5W-2 '18 UP Hombers 1 idrectived cracked aux stustus AV STUSTUS P Yes (D) No (E) Comments: TD #2747. IDS on TB'S reads B-2(052421) DUP(052421). SW DUP Ton '18 UP Ambers sies form initiated? Yes No You Comments: Ved appropriate for analysis? Yes X No Comments:
Comments SW-1_T	e headspace? Yes <u>×</u> No NA B 052421
Water samples: pH checke Comments:	ed: Yes Y No NA pH appropriate? Yes No NA PH
Additional information:	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Memberg



Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-60155-1 Client Project/Site: A1E0987

For:

Apex Laboratories LLC 6700 SW Sandburg St. Tigard, Oregon 97223

Attn: Philip Nerenberg

Authorized for release by: 6/10/2021 9:00:02 AM

Lori Thompson, Project Manager I (714)895-5494

Lori.Thompson@eurofinset.com

LINKS

Review your project results through

Total Access

Have a Question?



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Λ

5

6

R

9

11

12

1/

<u>I</u>k

Client: Apex Laboratories LLC Project/Site: A1E0987

Laboratory Job ID: 570-60155-1

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receipt Checklists	15

10

12

13

a E

Definitions/Glossary

Client: Apex Laboratories LLC Job ID: 570-60155-1

Project/Site: A1E0987

Glossary

QC

RER

RL RPD

TEF

TEQ TNTC **Quality Control**

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)
Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive

Eurofins Calscience LLC

6/10/2021

Page 3 of 15

9

A

5

6

10

46

13

14

1

Case Narrative

Client: Apex Laboratories LLC Job ID: 570-60155-1

Project/Site: A1E0987

Job ID: 570-60155-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative 570-60155-1

Comments

No additional comments.

Receipt

The samples were received on 5/26/2021 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° C.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

Method Organotin: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 570-153942. LCS/LCSD were performed to meet QC requirements.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Project/Site: A1E0987

Client Sample ID: SW-1(052421)

No Detections.

Client Sample ID: SW-2(052421)

Lab Sample ID: 570-60155-2

No Detections.

Client Sample ID: DUP(052421)

Lab Sample ID: 570-60155-3

No Detections.

Client: Apex Laboratories LLC

Job ID: 570-60155-1

5

4

5

6

8

10

13

-

1

Client Sample Results

Client: Apex Laboratories LLC Job ID: 570-60155-1 Project/Site: A1E0987

Method: Organotins SIM - Organotins (GC/MS SIM)

Client Sample ID: SW-2(052421)

Tripentyltin

Dibutyltin

Client Sample ID: SV Date Collected: 05/24	4/21 09:30 [°]						Lab San	nple ID: 570-6 Matrix:	0155-1 : Water
Date Received: 05/26 Analyte		Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND ND	Quaiiiiei	3.3		ng/L	=	<u>.</u>	06/03/21 17:24	1
Tributyltin	ND		3.3	1.5	ng/L		05/28/21 18:45	06/03/21 17:24	1
Dibutyltin	ND		3.3	1.9	ng/L		05/28/21 18:45	06/03/21 17:24	1
Monobutyltin	ND		3.3	2.6	ng/L		05/28/21 18:45	06/03/21 17:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tripentyltin	53		10 - 120				05/28/21 18:45	06/03/21 17:24	1

Date Collected: 05/24	4/21 09:45						Matrix	: Water
Date Received: 05/26	5/21 10:30							
Analyte	Result Qual	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND ND	2.9	1.8	ng/L		05/28/21 18:45	06/03/21 17:42	1
Tributyltin	ND	2.9	1.3	ng/L		05/28/21 18:45	06/03/21 17:42	1
Dibutyltin	ND	2.9	1.7	ng/L		05/28/21 18:45	06/03/21 17:42	1
Monobutyltin	ND	2.9	2.3	ng/L		05/28/21 18:45	06/03/21 17:42	1
Surrogate	%Recovery Qual	lifier Limits				Prepared	Analyzed	Dil Fac

10 - 120

64

ND

h	Client Sample ID: DUP(052421) Date Collected: 05/24/21 09:35							Lab San	nple ID: 570-6 Matrix	
ון	Date Received: 05/26/21 10:30									
1	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
-	Tetrabutyltin	ND		2.9	1.9	ng/L		05/28/21 18:45	06/03/21 17:59	1
-	Tributyltin	ND		2.9	1.3	ng/L		05/28/21 18:45	06/03/21 17:59	1

Monobutyltin	ND	2.9	2.3 ng/L	05/28/21 18:45	06/03/21 17:59	1
Surrogate	%Recovery Qualifier	Limits		Prepared	Analyzed	Dil Fac
Tripentyltin	45	10 - 120		05/28/21 18:45	06/03/21 17:59	1

2.9

1.7 ng/L

Lab Sample ID: 570-60155-2

05/28/21 18:45 06/03/21 17:42

05/28/21 18:45 06/03/21 17:59

Surrogate Summary

Client: Apex Laboratories LLC Job ID: 570-60155-1

Project/Site: A1E0987

Method: Organotins SIM - Organotins (GC/MS SIM)

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery (Acceptance Limits)
		TPTT	
Lab Sample ID	Client Sample ID	(10-120)	
570-60155-1	SW-1(052421)	53	
570-60155-2	SW-2(052421)	64	
570-60155-3	DUP(052421)	45	
LCS 570-153942/2-A	Lab Control Sample	60	
LCSD 570-153942/3-A	Lab Control Sample Dup	60	
MB 570-153942/1-A	Method Blank	31	
Surrogate Legend			
TPTT = Tripentyltin			

Page 7 of 15

QC Sample Results

Client: Apex Laboratories LLC Job ID: 570-60155-1 Project/Site: A1E0987

Method: Organotins SIM - Organotins (GC/MS SIM)

Lab Sample	ID: MB	570-153942/1-A

Matrix: Water Analysis Batch: 154804 **Client Sample ID: Method Blank**

Prep Type: Total/NA

Prep Batch: 153942

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrabutyltin	ND		3.0	1.9	ng/L		05/28/21 18:45	06/03/21 16:31	1
Tributyltin	ND		3.0	1.4	ng/L		05/28/21 18:45	06/03/21 16:31	1
Dibutyltin	ND		3.0	1.8	ng/L		05/28/21 18:45	06/03/21 16:31	1
Monobutyltin	ND		3.0	2.4	ng/L		05/28/21 18:45	06/03/21 16:31	1
	MD	MD							

MB MB

Qualifier Surrogate Limits Prepared Dil Fac %Recovery Analyzed Tripentyltin 10 - 120 05/28/21 18:45 06/03/21 16:31 31

Lab Sample ID: LCS 570-153942/2-A

Analysis Batch: 155808

Matrix: Water

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Prep Batch: 153942

Spike LCS LCS %Rec. Analyte Added Result Qualifier Limits Unit D %Rec Tetrabutyltin 200 187.8 ng/L 94 21 - 124 200 Tributyltin 116.1 ng/L 58 10 - 120

LCS LCS

Surrogate %Recovery Qualifier Limits 10 - 120 Tripentyltin 60

Lab Sample ID: LCSD 570-153942/3-A

Matrix: Water

Analysis Batch: 155808

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 153942**

LCSD LCSD Spike %Rec. **RPD** Limits RPD Analyte Added Result Qualifier Unit D %Rec Limit Tetrabutyltin 200 175.5 ng/L 88 21 - 124 7 30 Tributyltin 200 121.4 ng/L 61 10 - 120 5 30

LCSD LCSD

Surrogate %Recovery Qualifier Limits Tripentyltin 60 10 - 120

Eurofins Calscience LLC

Page 8 of 15

QC Association Summary

Client: Apex Laboratories LLC Job ID: 570-60155-1 Project/Site: A1E0987

GC/MS Semi VOA

Prep Batch: 153942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-60155-1	SW-1(052421)	Total/NA	Water	Organotin	
570-60155-2	SW-2(052421)	Total/NA	Water	Organotin	
570-60155-3	DUP(052421)	Total/NA	Water	Organotin	
MB 570-153942/1-A	Method Blank	Total/NA	Water	Organotin	
LCS 570-153942/2-A	Lab Control Sample	Total/NA	Water	Organotin	
LCSD 570-153942/3-A	Lab Control Sample Dup	Total/NA	Water	Organotin	

Analysis Batch: 154804

Lab Sample ID 570-60155-1	Client Sample ID SW-1(052421)	Prep Type Total/NA	Matrix Water	Method Organotins SIM	Prep Batch 153942
570-60155-2	SW-2(052421)	Total/NA	Water	Organotins SIM	153942
570-60155-3	DUP(052421)	Total/NA	Water	Organotins SIM	153942
MB 570-153942/1-A	Method Blank	Total/NA	Water	Organotins SIM	153942

Analysis Batch: 155808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-153942/2-A	Lab Control Sample	Total/NA	Water	Organotins SIM	153942
LCSD 570-153942/3-A	Lab Control Sample Dup	Total/NA	Water	Organotins SIM	153942

Lab Chronicle

Client: Apex Laboratories LLC Job ID: 570-60155-1

Project/Site: A1E0987

Client Sample ID: SW-1(052421)

Date Collected: 05/24/21 09:30 Date Received: 05/26/21 10:30 Lab Sample ID: 570-60155-1

Matrix: Water

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin			917.2 mL	1 mL	153942	05/28/21 18:45	USUL	ECL 1
Total/NA	Analysis	Organotins SIM		1			154804	06/03/21 17:24	ULLI	ECL 1
	Instrumer	t ID: GCMSY								

Client Sample ID: SW-2(052421)

Date Collected: 05/24/21 09:45

Lab Sample ID: 570-60155-2

Matrix: Water

Matrix: Water

Date Received: 05/26/21 10:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab	
Total/NA	Prep	Organotin			1049.8 mL	1 mL	153942	05/28/21 18:45	USUL	ECL 1	
Total/NA	Analysis	Organotins SIM		1			154804	06/03/21 17:42	ULLI	ECL 1	
	Inetrument	ID: CCMSV									

Lab Sample ID: 570-60155-3 Client Sample ID: DUP(052421)

Date Collected: 05/24/21 09:35

Date Received: 05/26/21 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	Organotin			1042.4 mL	1 mL	153942	05/28/21 18:45	USUL	ECL 1
Total/NA	Analysis	Organotins SIM		1			154804	06/03/21 17:59	ULLI	ECL 1

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: Apex Laboratories LLC Job ID: 570-60155-1

Project/Site: A1E0987

Laboratory: Eurofins Calscience LLC

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Oregon	NELAP	CA300001	01-30-22
Washington	State	C916-18	10-11-21

1

5

4

5

7

9

11

12

14

1

Method Summary

Client: Apex Laboratories LLC

Project/Site: A1E0987

Job ID: 570-60155-1

Method	Method Description	Protocol	Laboratory
Organotins SIM	Organotins (GC/MS SIM)	Lab SOP	ECL 1
Organotin	Extraction (Organotins)	WRC	ECL 1

Protocol References:

Lab SOP = Laboratory Standard Operating Procedure
WRC = WRC Notebook 11431-39, ICI America's Western Research Center May, 1989.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: Apex Laboratories LLC Project/Site: A1E0987

Job ID: 570-60155-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-60155-1	SW-1(052421)	Water	05/24/21 09:30	05/26/21 10:30
570-60155-2	SW-2(052421)	Water	05/24/21 09:45	05/26/21 10:30
570-60155-3	DUP(052421)	Water	05/24/21 09:35	05/26/21 10:30

SUBCONTRACT ORDER

Apex Laboratories

OBSMSM AIE

SW A1E0987

SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223 Phone: (503) 718-2323

Fax: (503) 336-0745

Project Manager: Philip Nerenberg

Containers Supplied:

(P) LAmber Glass - Non Preserved (Q) LAmber Glass - Non Preserved

RECEIVING LABORATORY:

Eurofins_CalScience 7440 Lincoln Way

Garden Grove, CA 92841-1427

Phone :(714) 895-5494 Fax: (714) 894-7501

Sample Name: SW-1(052421)		Water	Sampled:	05/24/21 09:30	(A1E0987-01)
Analysis	Due CBSNsh	/ Expires		Comments	
TBT, Butyl Tins (4) (Sub)	96/07/21 17:00	06/07/21 09:	:30		The second secon
Containers Supplied:	GROW				
P) Amber Glass - Non Preserved	··· •				
Amber Glass - Non Preserved					
				1/8 UP Amber lids receive	
Sample Name: SW-2(052421)		Water	Sampled:	05/24/21 09:45	(A1E0987-02)
Analysis	Due OUSTATA	Expires		Comments	
TBT, Butyl Tins (4) (Sub)	 06/07/21 17·00	06/07/21 09:	:45		
Containers Supplied:	6110/11				
(P) L Amber Glass - Non Preserved					
(Q)) L Amber Glass - Non Preserved					
				T on 1/8 UP Ambers rea	ds 955.
Sample Name: DUP(052421)		Water	Sampled:	05/24/21 09:35	(A1E0987-03)
Analysis	Due albshs	4 Expires		Comments	
TBT, Butyl Tins (4) (Sub)	_06/07/21 17:00	06/07/21 09:	35		

Standard TAT

6/10/1



570-60155 COC

Released By Date Fed Ex (Shipper)

Released By Date Received By Date

Released By Date Received By Date

Released By Page 1 of 1

Page 14 of 15

6/10/2021

Client: Apex Laboratories LLC

Job Number: 570-60155-1

Login Number: 60155 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Patel, Jayesh

Answer	Comment
N/A	
True	
N/A	
	N/A True True True True True True True True

www.capefearanalytical.com



June 16, 2021

Mr. Philip Nerenberg Apex Laboratories 6700 SW Sandburg Street Portland, Oregon 97223

Re: DXN & PCB Subcontract

Work Order: 18200 SDG: A1E0987

Dear Mr. Nerenberg:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on May 26, 2021. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Cyride Larkins

Cynde Larkins Project Manager

Enclosures

SUBCONTRACT ORDER

Apex Laboratories

A1E0987 065715h

CFA WO#1820C

SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223

Phone: (503) 718-2323 Fax: (503) 336-0745

Project Manager: Philip Nerenberg **RECEIVING LABORATORY:**

Cape Fear Analytical, LLC

3306 Kitty Hawk Rd Suite 120

Wilmington, NC 28405

Phone: (910) 795-0421

Fax: -

Sample Name: SW-1(052421)

Water

Sampled:

05/24/21 09:30

(A1E0987-01)

Analysis

Due CBS 5725 R1

Expires

Comments

1613B Dioxins and Furans (SUB)

Containers Supplied:

(N) L Amber Glass - Non Preserved

(O)1 L Amber Glass - Non Preserved

06/07/21 17:00 6/10/21

05/24/22 09:30

Sample Name: SW-2(052421)

Water

Sampled:

1/8 UP Amber lids received cracked and replace 05/24/21 09:45

(A1E0987-02)

Analysis

Analysis

Expires

Comments

1613B Dioxins and Furans (SUB)

Containers Supplied:

(N) L Amber Glass - Non Preserved

L Amber Glass - Non Preserved

Comments

T on 1/8 UP Ambers reads 955.

Sample Name: DUP(052421)

Due OB 574571 Expires

96/07/21 17:00

06/07/21 17:00

6/10/1

Sampled:

05/24/21 09:35

(A1E0987-03)

1613B Dioxins and Furans (SUB)

Containers Supplied:

N) L Amber Glass - Non Preserved

6110h1

05/24/22 09:35

Water

05/24/22 09:45

(O) L Amber Glass - Non Preserved

Standard TAI

temp.=1.5°C

Released B

Fed Ex (Shipper)

Received By

Fed Ex (Shipper)

Date

Released By

Date

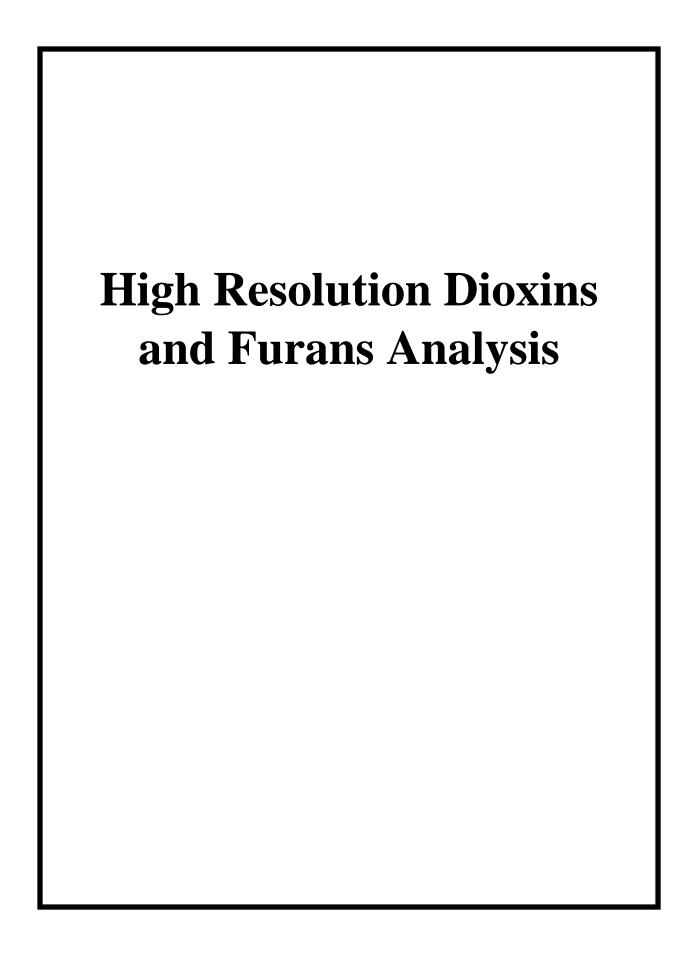
Received By

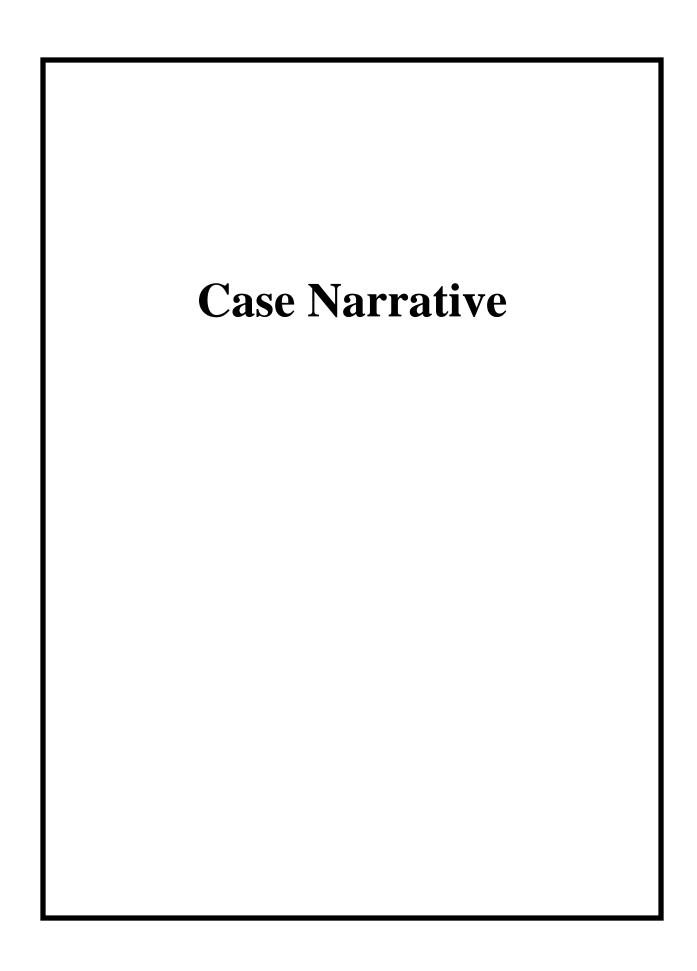
Page 1 of 1

SAMPLE RECEIPT CHECKLIST Cape Fear Analytical

Shi	pping Company: FNE				Date/Time Received: 5/26/21 1127
Sus	pected Hazard Information	Yes	NA	No	DOE Site Sample Packages Yes NA No
_	pped as DOT Hazardous?			/	Screened <0.5 mR/hr?
Sar	nples identified as Foreign Soil?		u,	/	Samples < 2x background?
	Sample Receipt Specifics sample in shipment?	Yes	NA	No	* Notify RSO of any responses in this column immediately. Air Witness:
F	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	/			Circle Applicable: seals broken damaged container leaking container other(describe)
2	Custody seal/s present on cooler?			1	Seal intact? Yes No
3	Chain of Custody documents included with shipment?	/	1		
4	Samples requiring cold preservation within 0-6°C?	/	/		Preservation Method: Ice bags loose ice blue ice dry ice none other (describe) Temperature Blank present: (ves) No
5	Aqueous samples found to have visible solids?	/		5/3	SW-2 and Dry Minimal Sol. 18 Sample IDs, containers affected:
5	Samples requiring chemical preservation at proper pH?	/			Sample IDs, containers affected and pH observed: ON-OH If preservative added, Lot#:
7	Samples requiring preservation have no residual chlorine?	/			Sample IDs, containers affected: If preservative added, Lotif:
8	Samples received within holding time?	/			Sample IDs, tests affected:
9	Sample IDs on COC match IDs on containers?	/			Sample IDs, containers affected:
10	Date & time of COC match date & time on containers?	/			Sample IDs, containers affected:
11	Number of containers received match number indicated on COC?	/			List type and number of containers / Sample IDs, containers affected: Victived b-IL NMainbay
12	COC form is properly signed in relinquished/received sections?				
Cor	nments:				

Page 3 of 27 Work Order: 18200





HDOX Case Narrative Apex Laboratories (APEX) SDG A1E0987 Work Order 18200

Method/Analysis Information

Product: Dioxins/Furans by EPA Method 1613B in Liquids

Analytical Method: EPA Method 1613B

Extraction Method: SW846 3520C

Analytical Batch Number: 47016 Clean Up Batch Number: 47011 Extraction Batch Number: 47010

Sample Analysis

Samples were received at 1.5°C. (18200001,18200002,18200003).

The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12029472	Method Blank (MB)
12029473	Laboratory Control Sample (LCS)
12029474	Laboratory Control Sample Duplicate (LCSD)
18200001	SW-1(052421)
18200002	SW-2(052421)
18200003	DUP(052421)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 20.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Page 6 of 27 Work Order: 18200

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (CVS) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement

The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Receipt Temperature

Samples were received within temperature requirements.

Holding Time Specifications

CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Page 7 of 27 Work Order: 18200

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Miscellaneous Information

Nonconformance (NCR) Documentation

A NCR was not required for this SDG.

Manual Integrations

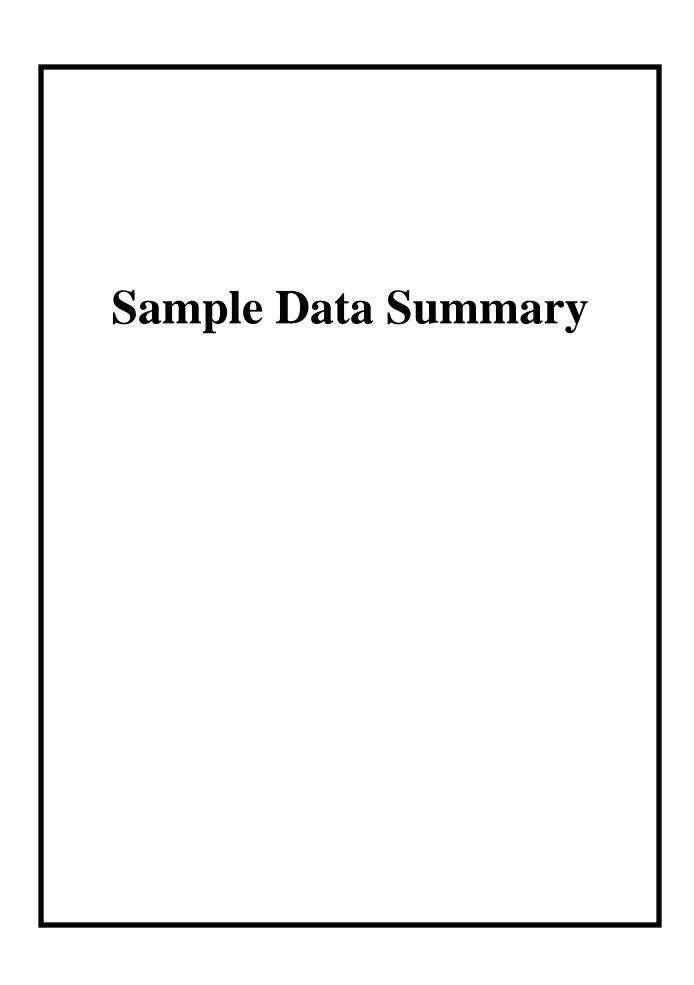
Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP763_1	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Page 8 of 27 Work Order: 18200



Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report for

APEX001 Apex Laboratories

Client SDG: A1E0987 CFA Work Order: 18200

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- K Estimated Maximum Possible Concentration
- U Analyte was analyzed for, but not detected above the specified detection limit.
- DL Indicates that sample is diluted.
- RA Indicates that sample is re-analyzed without re-extraction.
- RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: Suhrie Name: Erin Suhrie

Date: 16 JUN 2021 Title: Data Validator

Page 10 of 27 Work Order: 18200

Page 1

June 16, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

SDG Number: A1E0987 Clie
Lab Sample ID: 18200001 Date
Client Sample: 1613B Water Date

 Client:
 APEX001

 Date Collected:
 05/24/2021 09:30

 Date Received:
 05/26/2021 11:27

Project: A Matrix: V

APEX00320 WATER

Client ID:

Batch ID:

Run Date:

SW-1(052421) 47016

06/09/2021 18:54

Method: EPA Method 1613B Analyst: MLL Prep Basis: As Received

Data File: b09jun21b-12 Prep Batch: 47010 Prep Date: 03-JUN-21 analyst. WILL

Instrument: HRP763 Dilution: 1

Prep Method: SW846 3520C Prep Aliquot: 1009.9 mL

Prep Date:	03-JUN-21	Prep Aliquot:	1009.9 mL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	2.55	pg/L	2.55	9.90
40321-76-4	1,2,3,7,8-PeCDD	U	1.48	pg/L	1.48	49.5
39227-28-6	1,2,3,4,7,8-HxCDD	U	1.72	pg/L	1.72	49.5
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.65	pg/L	1.65	49.5
19408-74-3	1,2,3,7,8,9-HxCDD	U	1.70	pg/L	1.70	49.5
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	3.64	pg/L	3.64	49.5
3268-87-9	1,2,3,4,6,7,8,9-OCDD	J	8.71	pg/L	5.17	99.0
51207-31-9	2,3,7,8-TCDF	U	3.25	pg/L	3.25	9.90
57117-41-6	1,2,3,7,8-PeCDF	U	1.55	pg/L	1.55	49.5
57117-31-4	2,3,4,7,8-PeCDF	U	1.44	pg/L	1.44	49.5
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.09	pg/L	1.09	49.5
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.13	pg/L	1.13	49.5
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.12	pg/L	1.12	49.5
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.74	pg/L	1.74	49.5
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.61	pg/L	1.61	49.5
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.38	pg/L	2.38	49.5
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	4.28	pg/L	4.28	99.0
41903-57-5	Total TeCDD	U	2.55	pg/L	2.55	9.90
36088-22-9	Total PeCDD	U	1.48	pg/L	1.48	49.5
34465-46-8	Total HxCDD	U	1.65	pg/L	1.65	49.5
37871-00-4	Total HpCDD	U	3.64	pg/L	3.64	49.5
30402-14-3	Total TeCDF	U	3.25	pg/L	3.25	9.90
30402-15-4	Total PeCDF	U	1.44	pg/L	1.44	49.5
55684-94-1	Total HxCDF	U	1.09	pg/L	1.09	49.5
38998-75-3	Total HpCDF	U	1.61	pg/L	1.61	49.5
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		0.00261	pg/L		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		2.96	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1170	1980	pg/L	59.1	(25%-164%)
13C-1,2,3,7,8-PeCDD		1240	1980	pg/L	62.8	(25%-181%)
3C-1,2,3,4,7,8-HxCDD		1090	1980	pg/L	54.8	(32%-141%)
C-1,2,3,6,7,8-HxCDD		1220	1980	pg/L	61.8	(28%-130%)
C-1,2,3,4,6,7,8-HpCDD		1190	1980	pg/L	59.8	(23%-140%)
C-OCDD		2090	3960	pg/L	52.7	(17%-157%)
2,3,7,8-TCDF		1080	1980	pg/L	54.6	(24%-169%)
1,2,3,7,8-PeCDF		1080	1980	pg/L	54.6	(24%-185%)
2,3,4,7,8-PeCDF		1130	1980	pg/L	57.2	(21%-178%)
-1,2,3,4,7,8-HxCDF		1020	1980	pg/L	51.6	(26%-152%)
-1,2,3,6,7,8-HxCDF		1070	1980	pg/L	54.0	(26%-123%)
-2,3,4,6,7,8-HxCDF		1080	1980	pg/L	54.5	(28%-136%)
-1,2,3,7,8,9-HxCDF		1060	1980	pg/L	53.5	(29%-147%)

Page 2

Dilution:

1

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

 SDG Number:
 A1E0987
 Client:
 APEX001
 Project:
 APEX00320

 Lab Sample ID:
 18200001
 Date Collected:
 05/24/2021 09:30
 Matrix:
 WATER

 Client Sample:
 1613B Water
 Date Received:
 05/26/2021 11:27

 Client Sample:
 1613B Water
 Date Received:
 05/26/20

 Client ID:
 SW-1(052421)

b09jun21b-12

 Client ID:
 SW-1(052421)
 Prep Basis:
 As Received

 Batch ID:
 47016
 Method:
 EPA Method 1613B

 Run Date:
 06/09/2021 18:54
 Analyst:
 MLL
 Instrument:
 HRP763

Prep Batch:47010Prep Method:SW846 3520CPrep Date:03-JUN-21Prep Aliquot:1009.9 mL

CAS No. Parmname Qual Result Units EDL PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1040	1980	pg/L	52.4	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1120	1980	pg/L	56.6	(26%-138%)
37Cl-2,3,7,8-TCDD		186	198	pg/L	94.1	(35%-197%)

Comments:

Data File:

J Value is estimated

U Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

June 16, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1E0987 SDG Number: Client: 18200002 Lab Sample ID: 1613B Water **Client Sample:**

Date Collected: Date Received:

APEX001 05/24/2021 09:45 05/26/2021 11:27

Project: Matrix:

APEX00320 WATER

Client ID: Batch ID:

Run Date:

SW-2(052421) 47016

06/09/2021 19:44

Method: EPA Method 1613B **Analyst:** MLL

Prep Basis: As Received HRP763

Data File: b09jun21b-13 **Prep Batch:** 47010

Prep Method: Prep Aliquot: SW846 3520C

Instrument: Dilution: 1

993.4 mL **Prep Date:** 03-JUN-21

CAS No.	Parmname	Qual	Result	Units	EDL	PQL	
1746-01-6	2,3,7,8-TCDD	U	2.21	pg/L	2.21	10.1	
40321-76-4	1,2,3,7,8-PeCDD	U	2.70	pg/L	2.70	50.3	
39227-28-6	1,2,3,4,7,8-HxCDD	U	3.91	pg/L	3.91	50.3	
57653-85-7	1,2,3,6,7,8-HxCDD	U	3.70	pg/L	3.70	50.3	
19408-74-3	1,2,3,7,8,9-HxCDD	U	3.83	pg/L	3.83	50.3	
35822-46-9	1,2,3,4,6,7,8-HpCDD		247	pg/L	21.1	50.3	
3268-87-9	1,2,3,4,6,7,8,9-OCDD		6270	pg/L	29.4	101	
51207-31-9	2,3,7,8-TCDF	U	2.98	pg/L	2.98	10.1	
57117-41-6	1,2,3,7,8-PeCDF	U	1.81	pg/L	1.81	50.3	
57117-31-4	2,3,4,7,8-PeCDF	U	1.70	pg/L	1.70	50.3	
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.76	pg/L	1.76	50.3	
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.73	pg/L	1.73	50.3	
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.79	pg/L	1.79	50.3	
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.82	pg/L	2.82	50.3	
67562-39-4	1,2,3,4,6,7,8-HpCDF	JK	7.71	pg/L	2.76	50.3	
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	4.03	pg/L	4.03	50.3	
39001-02-0	1,2,3,4,6,7,8,9-OCDF	JK	20.7	pg/L	11.6	101	
41903-57-5	Total TeCDD	U	2.21	pg/L	2.21	10.1	
36088-22-9	Total PeCDD	U	1.50	pg/L	1.50	50.3	
34465-46-8	Total HxCDD	JK	19.9	pg/L	3.70	50.3	
37871-00-4	Total HpCDD		568	pg/L	21.1	50.3	
30402-14-3	Total TeCDF	U	2.98	pg/L	2.98	10.1	
30402-15-4	Total PeCDF	JK	2.36	pg/L	1.17	50.3	
55684-94-1	Total HxCDF	J	11.1	pg/L	1.73	50.3	
38998-75-3	Total HpCDF	JK	31.3	pg/L	2.76	50.3	
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		4.43	pg/L			
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		8.32	pg/L			

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits	
13C-2,3,7,8-TCDD		1380	2010	pg/L	68.4	(25%-164%)	
13C-1,2,3,7,8-PeCDD		1400	2010	pg/L	69.6	(25%-181%)	
13C-1,2,3,4,7,8-HxCDD		1250	2010	pg/L	62.2	(32%-141%)	
13C-1,2,3,6,7,8-HxCDD		1400	2010	pg/L	69.7	(28%-130%)	
13C-1,2,3,4,6,7,8-HpCDD		1300	2010	pg/L	64.8	(23%-140%)	
13C-OCDD		2400	4030	pg/L	59.6	(17%-157%)	
13C-2,3,7,8-TCDF		1280	2010	pg/L	63.4	(24%-169%)	
13C-1,2,3,7,8-PeCDF		1300	2010	pg/L	64.6	(24%-185%)	
13C-2,3,4,7,8-PeCDF		1300	2010	pg/L	64.6	(21%-178%)	
13C-1,2,3,4,7,8-HxCDF		1180	2010	pg/L	58.5	(26%-152%)	
13C-1,2,3,6,7,8-HxCDF		1240	2010	pg/L	61.7	(26%-123%)	
13C-2,3,4,6,7,8-HxCDF		1240	2010	pg/L	61.8	(28%-136%)	
13C-1,2,3,7,8,9-HxCDF		1160	2010	pg/L	57.5	(29%-147%)	

Page 2

1

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

SDG Number: A1E0987 Client: APEX001 Project: APEX00320 Lab Sample ID: 18200002 Date Collected: 05/24/2021 09:45 Matrix: WATER

Client Sample: 1613B Water Date Received: 05/26/2021 11:27

 Client ID:
 SW-2(052421)
 Prep Basis:
 As Received

 Batch ID:
 47016
 Method:
 EPA Method 1613B

 Run Date:
 06/09/2021 19:44
 Analyst:
 MLL
 Instrument:
 HRP763

Data File:b09jun21b-13Dilution:Prep Batch:47010Prep Method:SW846 3520CPrep Date:03-JUN-21Prep Aliquot:993.4 mL

CAS No. Parmname Qual Result Units EDL PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1170	2010	pg/L	58.3	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1260	2010	pg/L	62.4	(26%-138%)
37Cl-2,3,7,8-TCDD		188	201	pg/L	93.5	(35%-197%)

Comments:

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

June 16, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

SDG Number: A1E0987 Client: 18200003 **Date Collected:** Lab Sample ID: 1613B Water Date Received: **Client Sample:**

APEX001 05/24/2021 09:35 05/26/2021 11:27 **Project:** Matrix: APEX00320 WATER

Client ID: DUP(052421) **Batch ID:**

Run Date:

47016 06/09/2021 20:34 Method: EPA Method 1613B **Analyst:** MLL

Prep Basis: As Received HRP763

Data File: b09jun21b-14 47010 Prep Batch:

Prep Method: Prep Aliquot: SW846 3520C

Instrument: Dilution: 1

906.1 mL

T46-01-6	Prep Date:	03-JUN-21	Prep Aliquot:	906.1 mL			
1,23,7,8-PeCDD	CAS No.	Parmname	Qual	Result	Units	EDL	PQL
39227-28-6 1,2,3,4,7,8-HxCDD U 4,94 pg/L 4,94 57653-85-7 1,2,3,6,7,8-HxCDD U 4,97 pg/L 4,97 19408-74-3 1,2,3,7,8,9-HxCDD U 5,01 pg/L 5,01 35822-46-9 1,2,3,4,6,7,8-HpCDD 6750 pg/L 34.7 51207-31-9 2,3,7,8-PCDF U 3,51 pg/L 3,51 57117-41-6 1,2,3,7,8-PCDF U 2,30 pg/L 2,30 70648-26-9 1,2,3,4,7,8-PCDF U 3,31 pg/L 3,31 57117-44-9 1,2,3,6,7,8-HxCDF U 3,31 pg/L 3,31 57117-44-9 1,2,3,6,7,8-HxCDF U 3,41 pg/L 3,31 57117-44-9 1,2,3,6,7,8-HxCDF U 3,44 pg/L 3,44 72918-21-9 1,2,3,4,6,7,8-PCDF U 3,44 pg/L 3,44 72918-21-9 1,2,3,4,6,7,8-PCDF U 5,08 pg/L 3,97 55673-89-7 1,2,3,4,6,7,8-P	1746-01-6	2,3,7,8-TCDD	U	2.74	pg/L	2.74	11.0
57653-85-7 1,2,3,6,7,8-HxCDD U 4.97 pg/L 4.97 19408-74-3 1,2,3,7,8,9-HxCDD U 5.01 pg/L 5.01 35822-46-9 1,2,3,4,6,7,8-HpCDD 317 pg/L 21.5 3268-87-9 1,2,3,4,6,7,8,9-OCDD 6750 pg/L 3.47 51207-31-9 2,3,7,8-TCDF U 3.51 pg/L 2.45 57117-41-6 1,2,3,7,8-PeCDF U 2.45 pg/L 2.45 57117-31-4 2,3,4,7,8-PeCDF U 2.30 pg/L 2.30 70648-26-9 1,2,3,4,7,8-HxCDF U 3.31 pg/L 3.31 57117-44-9 1,2,3,6,7,8-HxCDF U 3.44 pg/L 3.44 60851-34-5 2,3,4,6,7,8-HxCDF U 3.44 pg/L 3.44 72918-21-9 1,2,3,4,6,7,8-HpCDF U 5.08 pg/L 5.08 67562-39-4 1,2,3,4,7,8-9-HpCDF U 5.58 pg/L 9.87 41903-57-5 Total PcCDD U<	40321-76-4	1,2,3,7,8-PeCDD	U	2.56	pg/L	2.56	55.2
19408-74-3 1,2,3,7,8,9-HxCDD U 5,01 pg/L 5,01 35822-46-9 1,2,3,4,6,7,8-HpCDD 317 pg/L 21.5 3268-87-9 1,2,3,4,6,7,8-9-CDDD 6750 pg/L 34.7 51207-31-9 2,3,7,8-TCDF U 3.51 pg/L 2.45 57117-41-6 1,2,3,7,8-PeCDF U 2.30 pg/L 2.30 70648-26-9 1,2,3,4,7,8-HxCDF U 3.31 pg/L 3.31 57117-44-9 1,2,3,6,7,8-HxCDF U 3.44 pg/L 3.44 60851-34-5 2,3,4,6,7,8-HxCDF U 3.44 pg/L 3.44 72918-21-9 1,2,3,7,8,9-HxCDF U 5.08 pg/L 5.08 67562-39-4 1,2,3,4,6,7,8-HyCDF U 5.58 pg/L 5.58 39001-02-0 1,2,3,4,6,7,8-9-OCDF U 5.58 pg/L 9.87 41903-57-5 Total PCDD U 2.74 pg/L 2.74 36088-22-9 Total PCDD 723 <td>39227-28-6</td> <td>1,2,3,4,7,8-HxCDD</td> <td>U</td> <td>4.94</td> <td>pg/L</td> <td>4.94</td> <td>55.2</td>	39227-28-6	1,2,3,4,7,8-HxCDD	U	4.94	pg/L	4.94	55.2
35822-46-9 1,2,3,4,6,7,8-HpCDD 317 pg/L 21.5 3268-87-9 1,2,3,4,6,7,8-9-OCDD 6750 pg/L 34.7 51207-31-9 2,3,7,8-TCDF U 3.51 pg/L 2.45 57117-41-6 1,2,3,7,8-PeCDF U 2.30 pg/L 2.30 70648-26-9 1,2,3,4,7,8-HxCDF U 3.31 pg/L 3.31 57117-44-9 1,2,3,6,7,8-HxCDF U 3.11 pg/L 3.11 60851-34-5 2,3,4,6,7,8-HxCDF U 3.44 pg/L 3.44 72918-21-9 1,2,3,7,8,9-HxCDF U 5.08 pg/L 5.08 67562-39-4 1,2,3,4,6,7,8-HxCDF U 5.08 pg/L 5.08 67562-39-4 1,2,3,4,6,7,8-HxCDF U 5.58 pg/L 5.58 39001-02-0 1,2,3,4,6,7,8,9-QCDF U 5.58 pg/L 9.87 41903-57-5 Total TeCDD U 2.74 pg/L 2.74 30088-22-9 Total PeCDD Tot	57653-85-7	1,2,3,6,7,8-HxCDD	U	4.97	pg/L	4.97	55.2
3268-87-9 1,2,3,4,6,7,8,9-OCDD 6750 pg/L 34.7 51207-31-9 2,3,7,8-TCDF U 3.51 pg/L 3.51 57117-31-4 1,2,3,7,8-PeCDF U 2.45 pg/L 2.45 57117-31-4 2,3,4,7,8-PeCDF U 3.31 pg/L 3.31 70648-26-9 1,2,3,4,7,8-HxCDF U 3.11 pg/L 3.31 57117-44-9 1,2,3,6,7,8-HxCDF U 3.44 pg/L 3.41 60851-34-5 2,3,4,6,7,8-HxCDF U 3.44 pg/L 3.44 72918-21-9 1,2,3,7,8,9-HxCDF U 5.08 pg/L 5.08 67562-39-4 1,2,3,4,6,7,8-HCDF U 5.58 pg/L 3.97 55673-89-7 1,2,3,4,6,7,8-PCDF U 5.58 pg/L 9.87 41903-57-5 Total TeCDD U 2.74 pg/L 2.74 36088-22-9 Total PeCDD U 2.56 pg/L 4.94 37871-00-4 Total HpCDD <t< td=""><td>19408-74-3</td><td>1,2,3,7,8,9-HxCDD</td><td>U</td><td>5.01</td><td>pg/L</td><td>5.01</td><td>55.2</td></t<>	19408-74-3	1,2,3,7,8,9-HxCDD	U	5.01	pg/L	5.01	55.2
51207-31-9 2,3,7,8-TCDF U 3.51 pg/L 3.51 57117-41-6 1,2,3,7,8-PeCDF U 2.45 pg/L 2.45 57117-31-4 2,3,4,7,8-PeCDF U 2.30 pg/L 2.30 70648-26-9 1,2,3,4,7,8-HxCDF U 3.31 pg/L 3.31 57117-44-9 1,2,3,6,7,8-HxCDF U 3.44 pg/L 3.44 60851-34-5 2,3,4,6,7,8-HxCDF U 3.44 pg/L 3.44 72918-21-9 1,2,3,7,8,9-HxCDF U 5.08 pg/L 5.08 67562-39-4 1,2,3,4,6,7,8-HpCDF J 23.6 pg/L 3.97 55673-89-7 1,2,3,4,6,7,8-PhCDF J 5.58 pg/L 9.87 41903-57-5 Total TeCDD U 2.74 pg/L 2.74 36088-22-9 Total PeCDD J 2.95 pg/L 4.94 37871-00-4 Total HpCDD 723 pg/L 3.51 30402-14-3 Total TeCDF J <td>35822-46-9</td> <td>1,2,3,4,6,7,8-HpCDD</td> <td></td> <td>317</td> <td>pg/L</td> <td>21.5</td> <td>55.2</td>	35822-46-9	1,2,3,4,6,7,8-HpCDD		317	pg/L	21.5	55.2
57117-41-6 1,2,3,7,8-PeCDF U 2,45 pg/L 2,45 57117-31-4 2,3,4,7,8-PeCDF U 2,30 pg/L 2,30 70648-26-9 1,2,3,4,7,8-HxCDF U 3,31 pg/L 3,31 57117-44-9 1,2,3,6,7,8-HxCDF U 3,11 pg/L 3,11 60851-34-5 2,3,4,6,7,8-HxCDF U 3,44 pg/L 3,44 72918-21-9 1,2,3,4,6,7,8-HxCDF U 5,08 pg/L 5,08 67562-39-4 1,2,3,4,6,7,8-HpCDF U 5,58 pg/L 3,97 55673-89-7 1,2,3,4,7,8,9-HpCDF U 5,58 pg/L 5,58 39001-02-0 1,2,3,4,6,7,8,9-OCDF U 2,74 pg/L 9,87 41903-57-5 Total TeCDD U 2,74 pg/L 2,74 36088-22-9 Total PeCDD U 2,56 pg/L 2,56 34465-46-8 Total HpCDD 723 pg/L 3,51 30402-14-3 Total PeCDF	3268-87-9	1,2,3,4,6,7,8,9-OCDD		6750	pg/L	34.7	110
57117-31-4 2,34,7,8-PeCDF U 2.30 pg/L 2.30 70648-26-9 1,2,3,47,8-HxCDF U 3.31 pg/L 3.31 57117-44-9 1,2,3,67,8-HxCDF U 3.11 pg/L 3.11 60851-34-5 2,3,4,67,8-HxCDF U 3.44 pg/L 3.44 72918-21-9 1,2,3,7,8,9-HxCDF U 5.08 pg/L 5.08 67562-39-4 1,2,3,4,6,7,8-HpCDF J 23.6 pg/L 3.97 55673-89-7 1,2,3,4,6,7,8,9-HpCDF U 5.58 pg/L 5.58 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 56.2 pg/L 9.87 41903-57-5 Total TeCDD U 2.74 pg/L 2.74 36088-22-9 Total PeCDD U 2.56 pg/L 2.56 34465-46-8 Total HxCDD J 29.5 pg/L 4.94 37871-00-4 Total HpCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF<	51207-31-9	2,3,7,8-TCDF	U	3.51	pg/L	3.51	11.0
70648-26-9 1,2,3,4,7,8-HxCDF U 3.31 pg/L 3.31 57117-44-9 1,2,3,6,7,8-HxCDF U 3.11 pg/L 3.11 60851-34-5 2,3,4,6,7,8-HxCDF U 5.08 pg/L 3.44 72918-21-9 1,2,3,7,8,9-HxCDF U 5.08 pg/L 5.08 67562-39-4 1,2,3,4,6,7,8-HpCDF J 23.6 pg/L 3.97 55673-89-7 1,2,3,4,6,7,8-PCDF U 5.58 pg/L 5.58 39001-02-0 1,2,3,4,6,7,8-PCDF U 2.74 pg/L 9.87 41903-57-5 Total TeCDD U 2.74 pg/L 2.74 36088-22-9 Total PeCDD U 2.56 pg/L 2.56 34465-46-8 Total HxCDD J 29.5 pg/L 4.94 37871-00-4 Total HpCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 3.51 30402-15-4 Total HxCDF	57117-41-6	1,2,3,7,8-PeCDF	U	2.45	pg/L	2.45	55.2
57117-44-9 1,2,3,6,7,8-HxCDF U 3.11 pg/L 3.11 60851-34-5 2,3,4,6,7,8-HxCDF U 3.44 pg/L 3.44 72918-21-9 1,2,3,7,8,9-HxCDF U 5.08 pg/L 5.08 67562-39-4 1,2,3,4,6,7,8-HpCDF J 23.6 pg/L 3.97 55673-89-7 1,2,3,4,7,8,9-HpCDF U 5.58 pg/L 5.58 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 56.2 pg/L 9.87 41903-57-5 Total TeCDD U 2.74 pg/L 2.74 36088-22-9 Total PeCDD J 29.5 pg/L 4.94 37871-00-4 Total HxCDD 723 pg/L 21.5 30402-14-3 Total TeCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 1.68 55684-94-1 Total HxCDF J 84.9 pg/L 3.97	57117-31-4	2,3,4,7,8-PeCDF	U	2.30	pg/L	2.30	55.2
60851-34-5 2,3,4,6,7,8-HxCDF U 3.44 pg/L 3.44 72918-21-9 1,2,3,7,8,9-HxCDF U 5.08 pg/L 5.08 67562-39-4 1,2,3,4,6,7,8-HpCDF J 23.6 pg/L 3.97 55673-89-7 1,2,3,4,7,8,9-HpCDF U 5.58 pg/L 5.58 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 56.2 pg/L 9.87 41903-57-5 Total TeCDD U 2.74 pg/L 2.74 36088-22-9 Total PeCDD U 2.56 pg/L 2.56 34465-46-8 Total HxCDD J 29.5 pg/L 4.94 37871-00-4 Total HpCDD 723 pg/L 21.5 30402-14-3 Total TeCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 3.51 30402-15-4 Total HxCDF JK 25.2 pg/L 3.11 38998-75-3 Total HpCDF J 84.9 pg/L 3.97	70648-26-9	1,2,3,4,7,8-HxCDF	U	3.31	pg/L	3.31	55.2
72918-21-9 1,2,3,7,8,9-HxCDF U 5.08 pg/L 5.08 67562-39-4 1,2,3,4,6,7,8-HpCDF J 23.6 pg/L 3.97 55673-89-7 1,2,3,4,7,8,9-HpCDF U 5.58 pg/L 5.58 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 56.2 pg/L 9.87 41903-57-5 Total TeCDD U 2.74 pg/L 2.74 36088-22-9 Total PeCDD J 29.5 pg/L 4.94 37871-00-4 Total HxCDD 723 pg/L 21.5 30402-14-3 Total TeCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 1.68 55684-94-1 Total HxCDF J 84.9 pg/L 3.97	57117-44-9	1,2,3,6,7,8-HxCDF	U	3.11	pg/L	3.11	55.2
67562-39-4 1,2,3,4,6,7,8-HpCDF J 23.6 pg/L 3.97 55673-89-7 1,2,3,4,7,8,9-HpCDF U 5.58 pg/L 5.58 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 56.2 pg/L 9.87 41903-57-5 Total TeCDD U 2.74 pg/L 2.74 36088-22-9 Total PeCDD U 2.56 pg/L 2.56 34465-46-8 Total HxCDD J 29.5 pg/L 4.94 37871-00-4 Total HpCDD 723 pg/L 21.5 30402-14-3 Total TeCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 1.68 55684-94-1 Total HxCDF JK 25.2 pg/L 3.11 38998-75-3 Total HpCDF J 84.9 pg/L 3.97	60851-34-5	2,3,4,6,7,8-HxCDF	U	3.44	pg/L	3.44	55.2
55673-89-7 1,2,3,4,6,7,8,9-HpCDF U 5.58 pg/L 5.58 39001-02-0 1,2,3,4,6,7,8,9-OCDF J 56.2 pg/L 9.87 41903-57-5 Total TeCDD U 2.74 pg/L 2.74 36088-22-9 Total PeCDD U 2.56 pg/L 2.56 34465-46-8 Total HxCDD J 29.5 pg/L 4.94 37871-00-4 Total HpCDD 723 pg/L 21.5 30402-14-3 Total TeCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 1.68 55684-94-1 Total HxCDF J 84.9 pg/L 3.97	72918-21-9	1,2,3,7,8,9-HxCDF	U	5.08	pg/L	5.08	55.2
39001-02-0 1,2,3,4,6,7,8,9-OCDF J 56.2 pg/L 9.87 41903-57-5 Total TeCDD U 2.74 pg/L 2.74 36088-22-9 Total PeCDD U 2.56 pg/L 2.56 34465-46-8 Total HxCDD J 29.5 pg/L 4.94 37871-00-4 Total HpCDD 723 pg/L 21.5 30402-14-3 Total TeCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 1.68 55684-94-1 Total HxCDF JK 25.2 pg/L 3.11 38998-75-3 Total HpCDF J 84.9 pg/L 3.97	67562-39-4	1,2,3,4,6,7,8-HpCDF	J	23.6	pg/L	3.97	55.2
41903-57-5 Total TeCDD U 2.74 pg/L 2.74 36088-22-9 Total PeCDD U 2.56 pg/L 2.56 34465-46-8 Total HxCDD J 29.5 pg/L 4.94 37871-00-4 Total HpCDD 723 pg/L 21.5 30402-14-3 Total TeCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 1.68 55684-94-1 Total HxCDF JK 25.2 pg/L 3.11 38998-75-3 Total HpCDF J 84.9 pg/L 3.97	55673-89-7	1,2,3,4,7,8,9-HpCDF	U	5.58	pg/L	5.58	55.2
36088-22-9 Total PeCDD U 2.56 pg/L 2.56 34465-46-8 Total HxCDD J 29.5 pg/L 4.94 37871-00-4 Total HpCDD 723 pg/L 21.5 30402-14-3 Total TeCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 1.68 55684-94-1 Total HxCDF JK 25.2 pg/L 3.11 38998-75-3 Total HpCDF J 84.9 pg/L 3.97	39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	56.2	pg/L	9.87	110
34465-46-8 Total HxCDD J 29.5 pg/L 4.94 37871-00-4 Total HpCDD 723 pg/L 21.5 30402-14-3 Total TeCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 1.68 55684-94-1 Total HxCDF JK 25.2 pg/L 3.11 38998-75-3 Total HpCDF J 84.9 pg/L 3.97	41903-57-5	Total TeCDD	U	2.74	pg/L	2.74	11.0
37871-00-4 Total HpCDD 723 pg/L 21.5 30402-14-3 Total TeCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 1.68 55684-94-1 Total HxCDF JK 25.2 pg/L 3.11 38998-75-3 Total HpCDF J 84.9 pg/L 3.97	36088-22-9	Total PeCDD	U	2.56	pg/L	2.56	55.2
30402-14-3 Total TeCDF U 3.51 pg/L 3.51 30402-15-4 Total PeCDF JK 4.28 pg/L 1.68 55684-94-1 Total HxCDF JK 25.2 pg/L 3.11 38998-75-3 Total HpCDF J 84.9 pg/L 3.97	34465-46-8	Total HxCDD	J	29.5	pg/L	4.94	55.2
30402-15-4 Total PeCDF JK 4.28 pg/L 1.68 55684-94-1 Total HxCDF JK 25.2 pg/L 3.11 38998-75-3 Total HpCDF J 84.9 pg/L 3.97	37871-00-4	Total HpCDD		723	pg/L	21.5	55.2
55684-94-1 Total HxCDF JK 25.2 pg/L 3.11 38998-75-3 Total HpCDF J 84.9 pg/L 3.97	30402-14-3	Total TeCDF	U	3.51	pg/L	3.51	11.0
38998-75-3 Total HpCDF J 84.9 pg/L 3.97	30402-15-4	Total PeCDF	JK	4.28	pg/L	1.68	55.2
	55684-94-1	Total HxCDF	JK	25.2	pg/L	3.11	55.2
3333-30-2 TEQ WHO2005 ND=0 with EMPCs 5.45 pg/L	38998-75-3	Total HpCDF	J	84.9	pg/L	3.97	55.2
	3333-30-2	TEQ WHO2005 ND=0 with EMPCs		5.45	pg/L		
3333-30-3 TEQ WHO2005 ND=0.5 with EMPCs 10.2 pg/L	3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		10.2	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1450	2210	pg/L	65.8	(25%-164%)
13C-1,2,3,7,8-PeCDD		1540	2210	pg/L	69.8	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1350	2210	pg/L	61.0	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1460	2210	pg/L	66.2	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1420	2210	pg/L	64.5	(23%-140%)
13C-OCDD		2580	4410	pg/L	58.4	(17%-157%)
13C-2,3,7,8-TCDF		1380	2210	pg/L	62.4	(24%-169%)
13C-1,2,3,7,8-PeCDF		1400	2210	pg/L	63.5	(24%-185%)
13C-2,3,4,7,8-PeCDF		1450	2210	pg/L	65.9	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1270	2210	pg/L	57.5	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1310	2210	pg/L	59.3	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1310	2210	pg/L	59.3	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1300	2210	pg/L	59.1	(29%-147%)

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

Client: APEX001 Project: APEX00320 Date Collected: 05/24/2021 09:35 Matrix: WATER

Page 2

of 2

 Lab Sample ID:
 18200003
 Date Collected:
 05/24/2021 09:35

 Client Sample:
 1613B Water
 Date Received:
 05/26/2021 11:27

Client ID: DUP(052421) Prep Basis: As Received Batch ID: 47016 Method: EPA Method 1613B

 Run Date:
 06/09/2021 20:34
 Analyst:
 MLL
 Instrument:
 HRP763

 Data File:
 b09jun21b-14
 Dilution:
 1

 Prep Batch:
 47010
 Prep Method:
 SW846 3520C

Prep Date: 03-JUN-21 Prep Aliquot: 906.1 mL

CAS No. Parmname Qual Result Units EDL PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1260	2210	pg/L	57.0	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1330	2210	pg/L	60.2	(26%-138%)
37Cl-2,3,7,8-TCDD		201	221	pg/L	91.0	(35%-197%)

Comments:

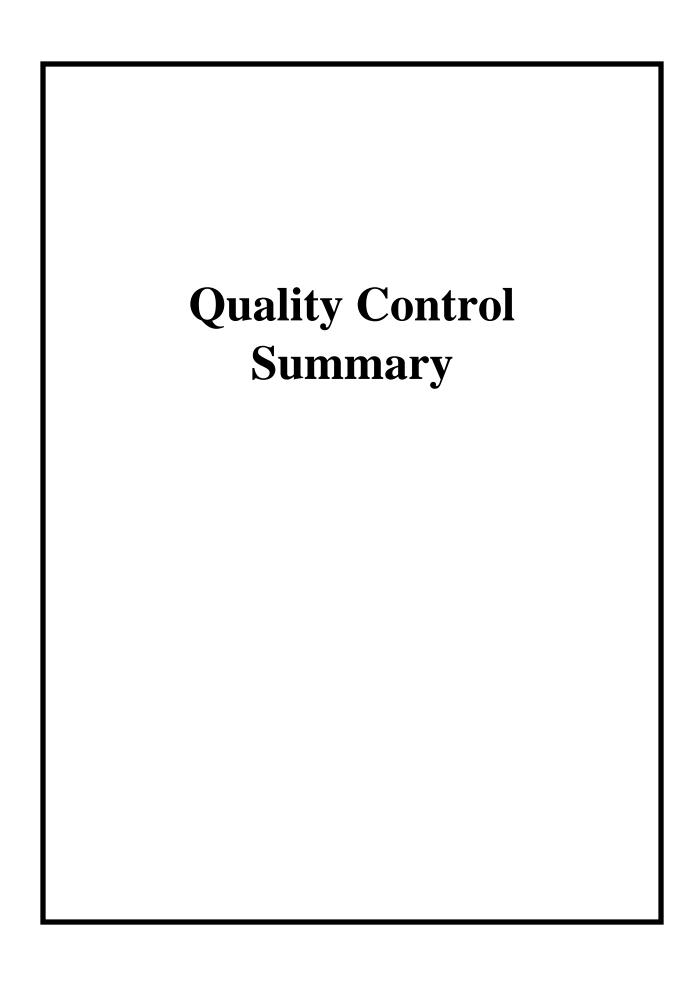
SDG Number:

J Value is estimated

K Estimated Maximum Possible Concentration

A1E0987

U Analyte was analyzed for, but not detected above the specified detection limit.



of 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A1E0987 Matrix Type: LIQUID

	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
2029473	LCS for batch 47010 13C-2,3,7,8-TCDD	13C-2,3,7,8-TCDD		66.0	(20%-175%)
		13C-1,2,3,7,8-PeCDD		69.0	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		59.4	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		65.9	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		58.6	(22%-166%)
		13C-OCDD		52.7	(13%-199%)
		13C-2,3,7,8-TCDF		60.5	(22%-152%)
		13C-1,2,3,7,8-PeCDF		61.2	(21%-192%)
		13C-2,3,4,7,8-PeCDF		62.3	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		54.9	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		58.1	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		59.3	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		57.4	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		55.9	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		57.3	(20%-186%)
		37Cl-2,3,7,8-TCDD		95.4	(31%-191%)
2029474	LCSD for batch 47010	13C-2,3,7,8-TCDD		63.1	(20%-175%)
		13C-1,2,3,7,8-PeCDD		66.4	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		56.7	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		66.7	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		59.2	(22%-166%)
		13C-OCDD		53.4	(13%-199%)
		13C-2,3,7,8-TCDF		59.0	(22%-152%)
		13C-1,2,3,7,8-PeCDF		60.4	(21%-192%)
		13C-2,3,4,7,8-PeCDF		61.0	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		53.5	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		58.7	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		58.6	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		55.7	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		56.2	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		57.2	(20%-186%)
		37Cl-2,3,7,8-TCDD		94.0	(31%-191%)
2029472	MB for batch 47010	13C-2,3,7,8-TCDD		64.1	(25%-164%)
		13C-1,2,3,7,8-PeCDD		67.7	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		58.3	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		65.0	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		59.2	(23%-140%)
		13C-OCDD		58.4	(17%-157%)
		13C-2,3,7,8-TCDF		62.0	(24%-169%)
		13C-1,2,3,7,8-PeCDF		61.8	(24%-185%)
		13C-2,3,4,7,8-PeCDF		62.4	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		53.6	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		59.8	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		59.4	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		55.9	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		55.9	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		58.0	(26%-138%)
		37C1-2,3,7,8-TCDD		90.4	(35%-197%)
3200001	SW-1(052421)	13C-2,3,7,8-TCDD		59.1	(25%-164%)

of 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A1E0987 Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
3200001	SW-1(052421)	13C-1,2,3,7,8-PeCDD		62.8	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		54.8	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		61.8	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		59.8	(23%-140%)
		13C-OCDD		52.7	(17%-157%)
		13C-2,3,7,8-TCDF		54.6	(24%-169%)
		13C-1,2,3,7,8-PeCDF		54.6	(24%-185%)
		13C-2,3,4,7,8-PeCDF		57.2	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		51.6	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		54.0	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		54.5	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		53.5	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		52.4	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		56.6	(26%-138%)
		37Cl-2,3,7,8-TCDD		94.1	(35%-197%)
200002	SW-2(052421)	13C-2,3,7,8-TCDD		68.4	(25%-164%)
	,	13C-1,2,3,7,8-PeCDD		69.6	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		62.2	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		69.7	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		64.8	(23%-140%)
		13C-OCDD		59.6	(17%-157%)
		13C-2,3,7,8-TCDF		63.4	(24%-169%)
		13C-1,2,3,7,8-PeCDF		64.6	(24%-185%)
		13C-2,3,4,7,8-PeCDF		64.6	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		58.5	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		61.7	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		61.8	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		57.5	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		58.3	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		62.4	(26%-138%)
		37Cl-2,3,7,8-TCDD		93.5	(35%-197%)
200003	DUP(052421)	13C-2,3,7,8-TCDD		65.8	(25%-164%)
		13C-1,2,3,7,8-PeCDD		69.8	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		61.0	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		66.2	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		64.5	(23%-140%)
		13C-OCDD		58.4	(17%-157%)
		13C-2,3,7,8-TCDF		62.4	(24%-169%)
		13C-1,2,3,7,8-PeCDF		63.5	(24%-185%)
		13C-2,3,4,7,8-PeCDF		65.9	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		57.5	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		59.3	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		59.3	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		59.1	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		57.0	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		60.2	(26%-138%)
		37Cl-2,3,7,8-TCDD		91.0	(35%-197%)

^{*} Recovery outside Acceptance Limits

Report Date: June 16, 2021

Page 3

of 3

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A1E0987 Matrix Type: LIQUID

Sample ID Client ID Surrogate $QUAL = \begin{array}{ccc} Recovery & Acceptance \\ (\%) & Limits \end{array}$

^{*} Recovery outside Acceptance Limits

[#] Column to be used to flag recovery values

D Sample Diluted

of 2

Page 1

Hi-Res Dioxins/Furans Quality Control Summary Spike Recovery Report

A1E0987 Sample Type: Laboratory Control Sample **SDG Number:**

Matrix: WATER **Client ID:** LCS for batch 47010

Lab Sample ID: 12029473

Instrument: HRP763 Analysis Date: 06/09/2021 10:37 Dilution: 1

Analyst: MLL Prep Batch ID:47010

> **Batch ID:** 47016

			Amount Added	Spike Conc.	Recovery	Acceptance
CAS No.		Parmname	pg/L	pg/L	%	Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	191	95.3	67-158
40321-76-4	LCS	1,2,3,7,8-PeCDD	1000	959	95.9	70-142
39227-28-6	LCS	1,2,3,4,7,8-HxCDD	1000	948	94.8	70-164
57653-85-7	LCS	1,2,3,6,7,8-HxCDD	1000	959	95.9	76-134
19408-74-3	LCS	1,2,3,7,8,9-HxCDD	1000	970	97	64-162
35822-46-9	LCS	1,2,3,4,6,7,8-HpCDD	1000	963	96.3	70-140
3268-87-9	LCS	1,2,3,4,6,7,8,9-OCDD	2000	1960	98.2	78-144
1207-31-9	LCS	2,3,7,8-TCDF	200	189	94.4	75-158
7117-41-6	LCS	1,2,3,7,8-PeCDF	1000	1040	104	80-134
7117-31-4	LCS	2,3,4,7,8-PeCDF	1000	1010	101	68-160
0648-26-9	LCS	1,2,3,4,7,8-HxCDF	1000	1050	105	72-134
7117-44-9	LCS	1,2,3,6,7,8-HxCDF	1000	1070	107	84-130
0851-34-5	LCS	2,3,4,6,7,8-HxCDF	1000	1050	105	70-156
2918-21-9	LCS	1,2,3,7,8,9-HxCDF	1000	1040	104	78-130
7562-39-4	LCS	1,2,3,4,6,7,8-HpCDF	1000	1010	101	82-122
5673-89-7	LCS	1,2,3,4,7,8,9-HpCDF	1000	1020	102	78-138
9001-02-0	LCS	1,2,3,4,6,7,8,9-OCDF	2000	2010	100	63-170

Page 2

of 2

Hi-Res Dioxins/Furans

Quality Control Summary Spike Recovery Report

SDG Number: A1E0987 Sample Type: Laboratory Control Sample Duplicate

Client ID: LCSD for batch 47010 Matrix: WATER

Lab Sample ID: 12029474

Instrument: HRP763 Analysis Date: 06/09/2021 11:26 Dilution: 1

Analyst: MLL Prep Batch ID:47010

Batch ID: 47016

CAS No.		Parmname	Amount Added pg/L	Spike Conc. pg/L	Recovery	Acceptance Limits	RPD %	Acceptance Limits
1746-01-6	LCSD	2,3,7,8-TCDD	200	184	91.9	67-158	3.64	0-20
40321-76-4	LCSD	1,2,3,7,8-PeCDD	1000	978	97.8	70-142	1.95	0-20
39227-28-6	LCSD	1,2,3,4,7,8-HxCDD	1000	968	96.8	70-164	2.05	0-20
57653-85-7	LCSD	1,2,3,6,7,8-HxCDD	1000	933	93.3	76-134	2.69	0-20
19408-74-3	LCSD	1,2,3,7,8,9-HxCDD	1000	973	97.3	64-162	0.280	0-20
35822-46-9	LCSD	1,2,3,4,6,7,8-HpCDD	1000	1020	102	70-140	5.67	0-20
3268-87-9	LCSD	1,2,3,4,6,7,8,9-OCDD	2000	1890	94.7	78-144	3.68	0-20
51207-31-9	LCSD	2,3,7,8-TCDF	200	186	93.2	75-158	1.28	0-20
57117-41-6	LCSD	1,2,3,7,8-PeCDF	1000	1010	101	80-134	2.52	0-20
57117-31-4	LCSD	2,3,4,7,8-PeCDF	1000	1030	103	68-160	1.79	0-20
70648-26-9	LCSD	1,2,3,4,7,8-HxCDF	1000	1030	103	72-134	2.08	0-20
57117-44-9	LCSD	1,2,3,6,7,8-HxCDF	1000	1060	106	84-130	1.77	0-20
60851-34-5	LCSD	2,3,4,6,7,8-HxCDF	1000	1050	105	70-156	0.511	0-20
72918-21-9	LCSD	1,2,3,7,8,9-HxCDF	1000	1040	104	78-130	0.808	0-20
67562-39-4	LCSD	1,2,3,4,6,7,8-HpCDF	1000	983	98.3	82-122	2.42	0-20
55673-89-7	LCSD	1,2,3,4,7,8,9-HpCDF	1000	1010	101	78-138	1.13	0-20
39001-02-0	LCSD	1,2,3,4,6,7,8,9-OCDF	2000	2010	100	63-170	0.0458	0-20

June 16, 2021

Method Blank Summary

Page 1 of 1

SDG Number: **Client ID:**

A1E0987

MB for batch 47010 Lab Sample ID: 12029472

Instrument ID: HRP763 **Prep Date:**

Client:

APEX001 03-JUN-21 Matrix: WATER

Data File: b09jun21b-4 Analyzed: 06/09/21 12:16

Column:

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed	
01 LCS for batch 47010	12029473	b09jun21b-2	06/09/21	1037	
02 LCSD for batch 47010	12029474	b09jun21b-3	06/09/21	1126	
03 SW-1(052421)	18200001	b09jun21b-12	06/09/21	1854	
04 SW-2(052421)	18200002	b09jun21b-13	06/09/21	1944	
05 DUP(052421)	18200003	b09jun21b-14	06/09/21	2034	

Page 1

June 16, 2021

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

SDG Number: A1E0987 Client: APEX001 Project: APEX00320 Lab Sample ID: 12029472 Matrix: WATER

Client Sample: QC for batch 47010

WB for batch 47010

Client ID: MB for batch 47010 Batch ID: 47016

Run Date: 06/09/2021 12:16
Data File: b09jun21b-4

Prep Batch: 47010
Prep Date: 03-JUN-21

Method: EPA Method 1613B Analyst: MLL

Prep Method: SW846 3520C

Prep Basis:

As Received

Instrument: HRP763 Dilution: 1

Prep Date:	03-JUN-21	Prep Aliquot:	1000 mL				
CAS No.	Parmname	Qual	Result	Units	EDL	PQL	
1746-01-6	2,3,7,8-TCDD	U	2.68	pg/L	2.68	10.0	
40321-76-4	1,2,3,7,8-PeCDD	U	1.63	pg/L	1.63	50.0	
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.18	pg/L	2.18	50.0	
57653-85-7	1,2,3,6,7,8-HxCDD	U	2.12	pg/L	2.12	50.0	
19408-74-3	1,2,3,7,8,9-HxCDD	U	2.16	pg/L	2.16	50.0	
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	3.70	pg/L	3.70	50.0	
3268-87-9	1,2,3,4,6,7,8,9-OCDD	U	4.10	pg/L	4.10	100	
51207-31-9	2,3,7,8-TCDF	U	3.78	pg/L	3.78	10.0	
57117-41-6	1,2,3,7,8-PeCDF	U	1.78	pg/L	1.78	50.0	
57117-31-4	2,3,4,7,8-PeCDF	U	1.65	pg/L	1.65	50.0	
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.62	pg/L	1.62	50.0	
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.60	pg/L	1.60	50.0	
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.60	pg/L	1.60	50.0	
72918-21-9	1,2,3,7,8,9-HxCDF	U	2.36	pg/L	2.36	50.0	
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.52	pg/L	1.52	50.0	
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.46	pg/L	2.46	50.0	
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	5.64	pg/L	5.64	100	
41903-57-5	Total TeCDD	U	2.68	pg/L	2.68	10.0	
36088-22-9	Total PeCDD	U	1.63	pg/L	1.63	50.0	
34465-46-8	Total HxCDD	U	2.12	pg/L	2.12	50.0	
37871-00-4	Total HpCDD	U	3.70	pg/L	3.70	50.0	
30402-14-3	Total TeCDF	U	3.78	pg/L	3.78	10.0	
30402-15-4	Total PeCDF	U	1.65	pg/L	1.65	50.0	
55684-94-1	Total HxCDF	U	1.60	pg/L	1.60	50.0	
38998-75-3	Total HpCDF	U	1.52	pg/L	1.52	50.0	
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		0.000	pg/L			
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		3.34	pg/L			

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1280	2000	pg/L	64.1	(25%-164%)
13C-1,2,3,7,8-PeCDD		1350	2000	pg/L	67.7	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1170	2000	pg/L	58.3	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1300	2000	pg/L	65.0	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1180	2000	pg/L	59.2	(23%-140%)
13C-OCDD		2340	4000	pg/L	58.4	(17%-157%)
13C-2,3,7,8-TCDF		1240	2000	pg/L	62.0	(24%-169%)
13C-1,2,3,7,8-PeCDF		1240	2000	pg/L	61.8	(24%-185%)
13C-2,3,4,7,8-PeCDF		1250	2000	pg/L	62.4	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1070	2000	pg/L	53.6	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1200	2000	pg/L	59.8	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1190	2000	pg/L	59.4	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1120	2000	pg/L	55.9	(29%-147%)

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary Page 2

HRP763

1

of 2

SDG Number: A1E0987 Client: APEX001 Project: APEX00320 Lab Sample ID: 12029472 Matrix: WATER

Client Sample: QC for batch 47010

Client ID: MB for batch 47010 Prep Basis: As Received Batch ID: 47016 Method: EPA Method 1613B

Run Date: 06/09/2021 12:16 Analyst: MLL Instrument: Data File: b09jun21b-4 Dilution: Prep Batch: 47010 Prep Method: SW846 3520C

Prep Date: 03-JUN-21 Prep Aliquot: 1000 mL

CAS No. Parmname Qual Result Units EDL PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1120	2000	pg/L	55.9	(28%-143%)
C-1,2,3,4,7,8,9-HpCDF		1160	2000	pg/L	58.0	(26%-138%)
7Cl-2,3,7,8-TCDD		181	200	pg/L	90.4	(35%-197%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

June 16, 2021

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

SDG Number: A1E0987 Client: APEX001 Lab Sample ID: 12029473

Project: Matrix: APEX00320 WATER

Client Sample: QC for batch 47010

Client ID: LCS for batch 47010

Batch ID: 47016

Method: 2021 10:37 Analyst:

EPA Method 1613B MLL Prep Basis: As Received

Run Date: 06/09/2021 10:37 Data File: b09jun21b-2 Prep Batch: 47010

Instrument: HRP763 Dilution: 1

Prep Batch: 47010 Prep Method: SW846 3520C Prep Date: 03-JUN-21 Prep Aliquot: 1000 mL

rrep Dute.	00 0011 21					
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		191	pg/L	2.80	10.0
40321-76-4	1,2,3,7,8-PeCDD		959	pg/L	4.70	50.0
39227-28-6	1,2,3,4,7,8-HxCDD		948	pg/L	8.06	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		959	pg/L	7.68	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		970	pg/L	7.92	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		963	pg/L	14.8	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1960	pg/L	28.2	100
51207-31-9	2,3,7,8-TCDF		189	pg/L	4.24	10.0
57117-41-6	1,2,3,7,8-PeCDF		1040	pg/L	5.60	50.0
57117-31-4	2,3,4,7,8-PeCDF		1010	pg/L	5.14	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1050	pg/L	10.4	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1070	pg/L	9.86	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1050	pg/L	9.60	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		1040	pg/L	15.3	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		1010	pg/L	12.8	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		1020	pg/L	19.3	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		2010	pg/L	19.6	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1320	2000	pg/L	66.0	(20%-175%)
13C-1,2,3,7,8-PeCDD		1380	2000	pg/L	69.0	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1190	2000	pg/L	59.4	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1320	2000	pg/L	65.9	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1170	2000	pg/L	58.6	(22%-166%)
13C-OCDD		2110	4000	pg/L	52.7	(13%-199%)
13C-2,3,7,8-TCDF		1210	2000	pg/L	60.5	(22%-152%)
13C-1,2,3,7,8-PeCDF		1220	2000	pg/L	61.2	(21%-192%)
13C-2,3,4,7,8-PeCDF		1250	2000	pg/L	62.3	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1100	2000	pg/L	54.9	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1160	2000	pg/L	58.1	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1190	2000	pg/L	59.3	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1150	2000	pg/L	57.4	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1120	2000	pg/L	55.9	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1150	2000	pg/L	57.3	(20%-186%)
37Cl-2,3,7,8-TCDD		191	200	pg/L	95.4	(31%-191%)

Comments:

U Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

June 16, 2021

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A1E0987 SDG Number:

12029474 Lab Sample ID:

Client:

APEX001

Project: Matrix: APEX00320 WATER

QC for batch 47010 **Client Sample:**

LCSD for batch 47010

47016

Method: **Analyst:** EPA Method 1613B

Prep Basis:

As Received

Run Date: Data File:

Client ID:

Batch ID:

06/09/2021 11:26 b09jun21b-3

MLL

Instrument: Dilution:

HRP763 1

47010 Prep Batch: **Prep Date:** 03-JUN-21

Prep Aliquot:

SW846 3520C **Prep Method:** $1000 \ mL$

Trop Date.	00 0011 21					
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		184	pg/L	2.86	10.0
40321-76-4	1,2,3,7,8-PeCDD		978	pg/L	4.68	50.0
39227-28-6	1,2,3,4,7,8-HxCDD		968	pg/L	10.1	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		933	pg/L	9.66	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		973	pg/L	9.92	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		1020	pg/L	14.6	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1890	pg/L	30.6	100
51207-31-9	2,3,7,8-TCDF		186	pg/L	3.64	10.0
57117-41-6	1,2,3,7,8-PeCDF		1010	pg/L	5.72	50.0
57117-31-4	2,3,4,7,8-PeCDF		1030	pg/L	5.10	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1030	pg/L	11.4	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1060	pg/L	11.3	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1050	pg/L	11.2	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		1040	pg/L	17.1	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		983	pg/L	12.4	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		1010	pg/L	19.0	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		2010	pg/L	19.9	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1260	2000	pg/L	63.1	(20%-175%)
13C-1,2,3,7,8-PeCDD		1330	2000	pg/L	66.4	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1130	2000	pg/L	56.7	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1330	2000	pg/L	66.7	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1180	2000	pg/L	59.2	(22%-166%)
13C-OCDD		2130	4000	pg/L	53.4	(13%-199%)
13C-2,3,7,8-TCDF		1180	2000	pg/L	59.0	(22%-152%)
13C-1,2,3,7,8-PeCDF		1210	2000	pg/L	60.4	(21%-192%)
13C-2,3,4,7,8-PeCDF		1220	2000	pg/L	61.0	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1070	2000	pg/L	53.5	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1170	2000	pg/L	58.7	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1170	2000	pg/L	58.6	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1110	2000	pg/L	55.7	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1120	2000	pg/L	56.2	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1140	2000	pg/L	57.2	(20%-186%)
37Cl-2,3,7,8-TCDD		188	200	pg/L	94.0	(31%-191%)

Comments:

Analyte was analyzed for, but not detected above the specified detection limit.





December 31, 2021

Ceres ID: 14909

Apex Laboratories 6700 S.W. Sandburg Street Tigard, OR 97223

The following report contains the results for the three solid samples received on December 22, 2021. These samples were analyzed for tetra through octa chlorinated dioxins and dibenzofurans by EPA method 1613. Rush turn-around time was provided for this work.

Sample results are reported on a dry weight basis.

This work was authorized under Apex Laboratories' Project # A1L0704.

The "H" qualifier on the samples signifies that the percent recovery for an internal standard is below the method limits. The results were deemed acceptable due to the signal to noise for the internal standard chromatograph peaks being >10:1.

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (CCV) met the acceptance criteria.

The report consists of a Cover Letter, Sample Inventory (Section I), Data Summary (Section II), Sample Tracking (Section VI), and Qualifiers/Abbreviations (Section VII). Raw Data (Section III), Continuing Calibration (Section IV), and Initial Calibration (Section V) are available in a full report (.pdf format) upon request.

If you have any questions regarding this report, please feel free to contact me at (916)932-5011.

Sincerely,

James M. Hedin

Director of Operations/CEO

jhedin@ceres-lab.com

Section I: Sample Inventory

<u>Ceres Sample ID:</u> 14909-001	Sample ID CB-1 (A1L0704-01)	Date Received 12/22/2021	Collection Date &Time 12/14/2021 14:43
14909-002	CB-2 (A1L0704-02)	12/22/2021	12/14/2021 9:58
14909-003	CB-S (A1L0704-03)	12/22/2021	12/14/2021 15:40

Section II: Data Summary



 Quality Assurance Sample
 Date Received: NA

 Method Blank
 QC Batch #: 2543
 Date Extracted: 12/28/2021

 Matrix: Solid
 Date Analyzed: 12/30/2021

 Project ID: A1L0704
 Sample Size: 10.00
 g

Analyte	Conc. (pg/g)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	DL= 0.128	0.172	0.500		13C-2378-TCDD	95.2	25-164	
12378-PeCDD	DL= 0.358	0.327	2.50		13C-12378-PeCDD	91.1	25-181	
123478-HxCDD	DL= 0.476	0.327	2.50		13C-123478-HxCDD	89.0	32-141	
123678-HxCDD	DL= 0.423	0.655	2.50		13C-123678-HxCDD	92.2	28-130	
123789-HxCDD	DL= 0.404	0.315	2.50		13C-1234678-HpCDD	76.0	23-140	
1234678-HpCDD	DL= 0.565	0.409	2.50		13C-OCDD	63.7	17-157	
OCDD	DL= 0.878	1.01	5.00		13C-2378-TCDF	81.3	24-169	
2,3,7,8-TCDF	DL= 0.138	0.0886	0.500		13C-12378-PeCDF	77.3	24-185	
12378-PeCDF	DL= 0.315	0.412	2.50		13C-23478-PeCDF	78.7	21-178	
23478-PeCDF	DL= 0.300	0.422	2.50		13C-123478-HxCDF	95.2	26-152	
123478-HxCDF	DL= 0.430	0.518	2.50		13C-123678-HxCDF	96.3	26-123	
123678-HxCDF	DL= 0.422	0.533	2.50		13C-234678-HxCDF	89.1	28-136	
234678-HxCDF	DL= 0.402	0.319	2.50		13C-123789-HxCDF	85.8	29-147	
123789-HxCDF	DL= 0.405	0.425	2.50		13C-1234678-HpCDF	71.8	28-143	
1234678-HpCDF	DL= 0.294	0.279	2.50		13C-1234789-HpCDF	70.2	26-138	
1234789-HpCDF	DL= 0.337	0.378	2.50					
OCDF	DL= 0.580	0.461	5.00					
Totals	Conc. (pg/g)	EMPC			CRS			
Total TCDD	DL= 0.128				37Cl4-2378-TCDD	89.7	35-197	
Total PeCDD	DL= 0.358							
Total HxCDD	DL= 0.476				DL - Signifies Non-Detect	(ND<) sample	e specific detection li	mit.
Total HpCDD	DL= 0.565				EMPC - Estimated Maxim	um Possible (Concentration due to	ion abundance
Total TCDF	DL= 0.138				ratio failure.			
Total PeCDF	DL= 0.315				(a) - Lower control limit - L	Jpper control I	imit	
Total HxCDF	DL= 0.430				(b) - TEQ based on (2005)	World Health	n Organization (WHC) Toxic
Total HpCDF	DL= 0.337				Equivalent Factors.			

Total Toxic Equivalency (TEQ min.) (b): 0.0 pg/g



Quality Assurance SampleDate Received: NAOngoing Precision and RecoveryQC Batch #: 2543Date Extracted: 12/28/2021Matrix: SolidDate Analyzed: 12/30/2021Project ID: A1L0704Sample Size: 10.00 g

Analyte	Conc. (ng/mL)	Limits (a)	Labeled Standards	% Rec.	Limits (a)
2,3,7,8-TCDD	8.52	6.7-15.8	13C-2378-TCDD	86.7	20-175
12378-PeCDD	51.1	35-71	13C-12378-PeCDD	78.0	21-227
123478-HxCDD	56.4	35-82	13C-123478-HxCDD	77.7	21-193
123678-HxCDD	58.9	38-67	13C-123678-HxCDD	85.8	25-163
123789-HxCDD	50.7	32-81	13C-1234678-HpCDD	63.9	26-166
1234678-HpCDD	52.9	35-70	13C-OCDD	58.9	13-198
OCDD	101	78-144	13C-2378-TCDF	74.7	22-152
2,3,7,8-TCDF	10.0	7.5-15.8	13C-12378-PeCDF	69.5	21-192
12378-PeCDF	50.2	40-67	13C-23478-PeCDF	68.4	13-328
23478-PeCDF	52.9	34-80	13C-123478-HxCDF	81.9	19-202
123478-HxCDF	57.9	36-67	13C-123678-HxCDF	80.8	21-159
123678-HxCDF	55.6	42-65	13C-234678-HxCDF	80.3	22-176
234678-HxCDF	56.8	35-78	13C-123789-HxCDF	81.7	17-205
123789-HxCDF	56.9	39-65	13C-1234678-HpCDF	64.1	21-158
1234678-HpCDF	52.5	41-61	13C-1234789-HpCDF	56.8	20-186
1234789-HpCDF	52.0	39-69			
OCDF	101	63-170			
			CRS		
			37Cl4-2378-TCDD	86.3	31-191
			(a) Limits based on method	acceptance criteria.	



Analyte	Conc. (pg/g)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	3.87	0.172	0.502		13C-2378-TCDD	84.4	25-164	
12378-PeCDD	19.8	0.327	2.51		13C-12378-PeCDD	76.5	25-181	
123478-HxCDD	21.9	0.327	2.51		13C-123478-HxCDD	81.5	32-141	
123678-HxCDD	39.8	0.655	2.51		13C-123678-HxCDD	79.9	28-130	
123789-HxCDD	35.4	0.315	2.51		13C-1234678-HpCDD	62.2	23-140	
1234678-HpCDD	1,170	0.409	2.51		13C-OCDD	46.5	17-157	
OCDD	17,100	1.01	5.02	Ε	13C-2378-TCDF	70.8	24-169	
2,3,7,8-TCDF	2.83	0.0886	0.502		13C-12378-PeCDF	70.3	24-185	
12378-PeCDF	2.68	0.412	2.51		13C-23478-PeCDF	68.2	21-178	
23478-PeCDF	5.20	0.422	2.51		13C-123478-HxCDF	81.0	26-152	
123478-HxCDF	9.83	0.518	2.51		13C-123678-HxCDF	81.9	26-123	
123678-HxCDF	8.17	0.533	2.51		13C-234678-HxCDF	75.2	28-136	
234678-HxCDF	12.1	0.319	2.51		13C-123789-HxCDF	78.6	29-147	
123789-HxCDF	4.46	0.425	2.51		13C-1234678-HpCDF	53.4	28-143	
1234678-HpCDF	136	0.279	2.51		13C-1234789-HpCDF	54.3	26-138	
1234789-HpCDF	9.47	0.378	2.51					
OCDF	276	0.461	5.02					
Totals	Conc. (pg/g)	EMPC			<u>CRS</u>			
Total TCDD	32.5				37Cl4-2378-TCDD	77.9	35-197	
Total PeCDD	110							
Total HxCDD	416				DL - Signifies Non-Detect ((ND<) sample	specific detection lin	nit.
Total HpCDD	2,420				EMPC - Estimated Maximu	ım Possible (Concentration due to	ion abundance
Total TCDF	75.0				ratio failure.			
Total PeCDF	90.1				(a) - Lower control limit - U	pper control I	imit	
Total HxCDF	261				(b) - TEQ based on (2005)	World Health	o Organization (WHO) Toxic
Total HpCDF	361				Equivalent Factors.			

Total Toxic Equivalency (TEQ min.) (b): 57.1 pg/g



Analyte	Conc. (pg/g)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	3.46	0.172	0.503		13C-2378-TCDD	94.0	25-164	
12378-PeCDD	26.4	0.327	2.51		13C-12378-PeCDD	80.2	25-181	
123478-HxCDD	42.2	0.327	2.51		13C-123478-HxCDD	82.3	32-141	
123678-HxCDD	102	0.655	2.51		13C-123678-HxCDD	82.8	28-130	
123789-HxCDD	53.7	0.315	2.51		13C-1234678-HpCDD	60.2	23-140	
1234678-HpCDD	4,180	0.409	2.51	Е	13C-OCDD	47.0	17-157	
OCDD	56,900	1.01	5.03	Е	13C-2378-TCDF	79.9	24-169	
2,3,7,8-TCDF	5.48	0.0886	0.503		13C-12378-PeCDF	77.0	24-185	
12378-PeCDF	4.15	0.412	2.51		13C-23478-PeCDF	74.7	21-178	
23478-PeCDF	10.1	0.422	2.51		13C-123478-HxCDF	88.9	26-152	
123478-HxCDF	16.7	0.518	2.51		13C-123678-HxCDF	86.3	26-123	
123678-HxCDF	17.6	0.533	2.51		13C-234678-HxCDF	77.3	28-136	
234678-HxCDF	26.4	0.319	2.51		13C-123789-HxCDF	78.1	29-147	
123789-HxCDF	6.45	0.425	2.51		13C-1234678-HpCDF	51.8	28-143	
1234678-HpCDF	483	0.279	2.51		13C-1234789-HpCDF	50.7	26-138	
1234789-HpCDF	26.9	0.378	2.51					
OCDF	863	0.461	5.03					
Totals	Conc. (pg/g)	EMPC			CRS			
Total TCDD	26.2				37Cl4-2378-TCDD	84.4	35-197	
Total PeCDD	137							
Total HxCDD	820				DL - Signifies Non-Detect	(ND<) sample	e specific detection lin	nit.
Total HpCDD	8,510				EMPC - Estimated Maxim	um Possible (Concentration due to	ion abundance
Total TCDF	112				ratio failure.			
Total PeCDF	236				(a) - Lower control limit - L	Ipper control I	limit	
Total HxCDF	1,100				(b) - TEQ based on (2005)	World Health	n Organization (WHO) Toxic
Total HpCDF	1,490				Equivalent Factors.			

Total Toxic Equivalency (TEQ min.) (b): 124 pg/g



Analyte	Conc. (pg/g)	MDL	RL	Qual.	Labeled Standards	% R	LCL-UCL (a)	Qualifiers
2,3,7,8-TCDD	4.79	0.172	0.502		13C-2378-TCDD	95.1	25-164	
12378-PeCDD	70.1	0.327	2.51		13C-12378-PeCDD	65.2	25-181	
123478-HxCDD	129	0.327	2.51		13C-123478-HxCDD	65.1	32-141	
123678-HxCDD	362	0.655	2.51		13C-123678-HxCDD	74.0	28-130	
123789-HxCDD	163	0.315	2.51		13C-1234678-HpCDD	6.70	23-140	Н
1234678-HpCDD	11,900	0.409	2.51	Е	13C-OCDD	17.0	17-157	
OCDD	120,000	1.01	5.02	Е	13C-2378-TCDF	73.9	24-169	
2,3,7,8-TCDF	16.0	0.0886	0.502		13C-12378-PeCDF	61.0	24-185	
12378-PeCDF	13.5	0.412	2.51		13C-23478-PeCDF	52.9	21-178	
23478-PeCDF	55.7	0.422	2.51		13C-123478-HxCDF	74.5	26-152	
123478-HxCDF	108	0.518	2.51		13C-123678-HxCDF	73.9	26-123	
123678-HxCDF	100	0.533	2.51		13C-234678-HxCDF	56.6	28-136	
234678-HxCDF	161	0.319	2.51		13C-123789-HxCDF	55.9	29-147	
123789-HxCDF	56.2	0.425	2.51		13C-1234678-HpCDF	11.7	28-143	Н
1234678-HpCDF	3,000	0.279	2.51	Ε	13C-1234789-HpCDF	9.42	26-138	Н
1234789-HpCDF	214	0.378	2.51					
OCDF	6,410	0.461	5.02	Е				
Totals	Conc. (pg/g)	EMPC			<u>CRS</u>			
Total TCDD	37.8				37Cl4-2378-TCDD	93.8	35-197	
Total PeCDD	290							
Total HxCDD	2,110				DL - Signifies Non-Detect	(ND<) sample	specific detection lin	mit.
Total HpCDD	37,300				EMPC - Estimated Maximi	um Possible (Concentration due to	ion abundance
Total TCDF	319				ratio failure.			
Total PeCDF	1,220				(a) - Lower control limit - U	pper control I	imit	
Total HxCDF	7,440				(b) - TEQ based on (2005)	World Health	Organization (WHO) Toxic
Total HpCDF	16,900				Equivalent Factors.			

Total Toxic Equivalency (TEQ min.) (b): 391 pg/g

Section VI: Sample Tracking

SUBCONTRACT ORDER

Apex Laboratories

ONS 12/17/4 A1L0704



SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223 Phone: (503) 718-2323 Fax: (503) 336-0745

Project Manager:

Philip Nerenberg

RECEIVING LABORATORY:

Ceres Analytical Laboratory, Inc 4919 Windplay Drive, Suite 1 El Dorado Hills, CA 95762

Phone: (916) 932-5011

Fax: -9

Sample Name: CB-1		Solid	Sampled: 12/14/21 14:43	(A1L0704-01)
Analysis	Due	Expires	Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (E)8 oz Glass Jar	01/03/22 17:00	12/14/22 14:43		
Sample Name: CB-2		Solid	Sampled: 12/14/21 09:58	(A1L0704-02)
Analysis	Due	Expires	Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (E)8 oz Glass Jar	01/03/22 17:00	12/14/22 09:58		
Sample Name: CB-S		Solid	Sampled: 12/14/21 15:40	(A1L0704-03)
Analysis	Due	Expires	Comments	
1613B Dioxins and Furans (SUB) Containers Supplied: (E)8 oz Glass Jar	01/03/22 17:00	12/14/22 15:40		

Rush-2 week TAT from received date

Released By

Date

Received By

Date

Date

Received By

Date

Sample Receipt Check List Logged by: _____(initials)

Ceres ID: 14909		Date/Time: 12/21 0945
Client Project ID: AILO704		Received Temp: 4.2 °C Acceptable: N
Chain of Custody Relinquished by signed?		W/N
Chain of Custody Received by signed?		Y/ N
Custody Seals?	Present?	Y/N
	Intact?	Y/N
	NA:	NA
Unlabeled / Illegible Samples		Y/N
Proper Containers:		(y/ N
Preservation Acceptable (Chemical or <u>Temp</u>	erature)?	(Y/ N
Drinking Water, Sodium Thiosulfate presen Residual Cl? Aqueous sample pH:	t?	Y/N/NA Y/N
Jalanta		

Section VII: Qualifiers/Abbreviations

J Concentration found below the lower quantitation limit but greater

than zero.

B Analyte present in the associated Method Blank.

E Concentration found exceeds the Calibration range of the

HRGC/HRMS.

D This analyte concentration was calculated from a dilution.

X The concentration found is the estimated maximum possible

concentration due to chlorinated diphenyl ethers present in the

sample.

H Recovery limits exceeded. See cover letter.

* Results taken from dilution.

I Interference. See cover letter.

Conc. Concentration Found

DL Calculated Detection Limit

ND Non-Detect

% Rec. Percent Recovery



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

Saturday, July 9, 2022 Erik Hedberg NV5 9450 SW Commerce Circle Wilsonville, OR 97070

RE: A2F0009 - BCSAmerica-1-02 - [none]

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A2F0009, which was received by the laboratory on 5/31/2022 at 1:40:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@apex-labs.com, or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

(See Cooler Receipt Form for details)

Cooler#1 3.4 degC Cooler#2

1.7 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.





Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Nevemberg

Page 1 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	RMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1(052822)	A2F0009-01	Water	05/28/22 14:57	05/31/22 13:40
SW-2(052822)	A2F0009-02	Water	05/28/22 15:39	05/31/22 13:40

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 2 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

<u>NV5</u> Project: <u>BCSAmerica-1-02</u>

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

	Die	sel and/or O	il Hydrocar	bons by NWTP	H-Dx			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-1(052822) (A2F0009-01)				Matrix: Wate	er	Batch:	22F0123	
Diesel	ND	0.0935	0.187	mg/L	1	06/04/22 02:27	NWTPH-Dx	
Oil	ND	0.187	0.374	mg/L	1	06/04/22 02:27	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 93 %	Limits: 50-150 %	6 I	06/04/22 02:27	NWTPH-Dx	
SW-2(052822) (A2F0009-02)				Matrix: Wate	er	Batch:	22F0123	
Diesel	ND	0.0935	0.187	mg/L	1	06/04/22 02:50	NWTPH-Dx	
Oil	ND	0.187	0.374	mg/L	1	06/04/22 02:50	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 99 %	Limits: 50-150 %	6 <i>1</i>	06/04/22 02:50	NWTPH-Dx	

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons	(Benzene t	hrough Naphth	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(052822) (A2F0009-01)				Matrix: Wate	er	Batch:	: 22F0069	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	06/02/22 12:20	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 103 %	Limits: 50-150 %	6 I	06/02/22 12:20	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150 %	6 I	06/02/22 12:20	NWTPH-Gx (MS)	
SW-2(052822) (A2F0009-02)				Matrix: Wate	er	Batch:	: 22F0069	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	06/02/22 13:14	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 100 %	Limits: 50-150 %	6 I	06/02/22 13:14	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			104 %	50-150 %	6 I	06/02/22 13:14	NWTPH-Gx (MS)	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

<u>NV5</u> Project: <u>BCSAmerica-1-02</u>

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
SW-1(052822) (A2F0009-01)				Matrix: W	ater	Batch:	22F0069	
Acetone	ND	20.0	20.0	ug/L	1	06/02/22 12:20	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	06/02/22 12:20	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	06/02/22 12:20	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	06/02/22 12:20	EPA 8260D	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1	06/02/22 12:20	EPA 8260D	
n-Butylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	06/02/22 12:20	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
Chloroethane	ND	25.0	25.0	ug/L	1	06/02/22 12:20	EPA 8260D	EST
Chloroform	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	06/02/22 12:20	EPA 8260D	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
1,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
1,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
Dichlorodifluoromethane	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,1-Dichloroethane	ND	0.200	0.400	ug/L	1	06/02/22 12:20	EPA 8260D	
1,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	06/02/22 12:20	EPA 8260D	
1,1-Dichloroethene	ND	0.200	0.400	ug/L	1	06/02/22 12:20	EPA 8260D	
cis-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	06/02/22 12:20	EPA 8260D	
rans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	06/02/22 12:20	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
SW-1(052822) (A2F0009-01)				Matrix: Wate	ır	Batch: 2	22F0069	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	06/02/22 12:20	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	06/02/22 12:20	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	06/02/22 12:20	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	06/02/22 12:20	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	06/02/22 12:20	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	06/02/22 12:20	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	06/02/22 12:20	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
n,p-Xylene	ND	0.500	1.00	ug/L	1	06/02/22 12:20	EPA 8260D	
o-Xylene	ND	0.250	0.500	ug/L	1	06/02/22 12:20	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	y: 103 %	Limits: 80-120 %	6 I	06/02/22 12:20	EPA 8260D	
Toluene-d8 (Surr)			100 %	80-120 %		06/02/22 12:20	EPA 8260D	
4-Bromofluorobenzene (Surr)			100 %	80-120 %	6 1	06/02/22 12:20	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

<u>NV5</u> Project: <u>BCSAmerica-1-02</u>

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
6W-2(052822) (A2F0009-02)				Matrix: W	ater	Batch: 22F0069		
Acetone	ND	10.0	20.0	ug/L	1	06/02/22 13:14	EPA 8260D	
Acrylonitrile	ND	1.00	2.00	ug/L	1	06/02/22 13:14	EPA 8260D	
Benzene	ND	0.100	0.200	ug/L	1	06/02/22 13:14	EPA 8260D	
Bromobenzene	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
Bromochloromethane	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
Bromodichloromethane	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
Bromoform	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
Bromomethane	ND	5.00	5.00	ug/L	1	06/02/22 13:14	EPA 8260D	
-Butanone (MEK)	ND	5.00	10.0	ug/L	1	06/02/22 13:14	EPA 8260D	
-Butylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
ec-Butylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
ert-Butylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
Carbon disulfide	ND	5.00	10.0	ug/L	1	06/02/22 13:14	EPA 8260D	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
Chlorobenzene	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
Chloroethane	ND	25.0	25.0	ug/L	1	06/02/22 13:14	EPA 8260D	ES
Chloroform	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
Chloromethane	ND	2.50	5.00	ug/L	1	06/02/22 13:14	EPA 8260D	
-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
-Chlorotoluene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
Dibromochloromethane	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1	06/02/22 13:14	EPA 8260D	
,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
Dibromomethane	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
,2-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
,3-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
,4-Dichlorobenzene	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
richlorodifluoromethane	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
,1-Dichloroethane	ND	0.200	0.400	ug/L	1	06/02/22 13:14	EPA 8260D	
,2-Dichloroethane (EDC)	ND	0.200	0.400	ug/L	1	06/02/22 13:14	EPA 8260D	
,1-Dichloroethene	ND	0.200	0.400	ug/L	1	06/02/22 13:14	EPA 8260D	
is-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	06/02/22 13:14	EPA 8260D	
ans-1,2-Dichloroethene	ND	0.200	0.400	ug/L	1	06/02/22 13:14	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
SW-2(052822) (A2F0009-02)				Matrix: Wate	r	Batch:	22F0069	
1,2-Dichloropropane	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
1,3-Dichloropropane	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
2,2-Dichloropropane	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
1,1-Dichloropropene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
cis-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
trans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
Hexachlorobutadiene	ND	2.50	5.00	ug/L	1	06/02/22 13:14	EPA 8260D	
2-Hexanone	ND	5.00	10.0	ug/L	1	06/02/22 13:14	EPA 8260D	
Isopropylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
4-Isopropyltoluene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
Methylene chloride	ND	5.00	10.0	ug/L	1	06/02/22 13:14	EPA 8260D	
4-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1	06/02/22 13:14	EPA 8260D	
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
Naphthalene	ND	1.00	2.00	ug/L	1	06/02/22 13:14	EPA 8260D	
n-Propylbenzene	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
Styrene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1	06/02/22 13:14	EPA 8260D	
1,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
1,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/02/22 13:14	EPA 8260D	
1,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1	06/02/22 13:14	EPA 8260D	
1,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1	06/02/22 13:14	EPA 8260D	
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1	06/02/22 13:14	EPA 8260D	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
n,p-Xylene	ND	0.500	1.00	ug/L	1	06/02/22 13:14	EPA 8260D	
-Xylene	ND	0.250	0.500	ug/L	1	06/02/22 13:14	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recovery	ry: 103 %	Limits: 80-120 %	6 1	06/02/22 13:14	EPA 8260D	
Toluene-d8 (Surr)			100 %	80-120 %		06/02/22 13:14	EPA 8260D	
4-Bromofluorobenzene (Surr)			99 %	80-120 %	6 I	06/02/22 13:14	EPA 8260D	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

	Vol	atile Organic	Compound	s by EPA 82600	SIM			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(052822) (A2F0009-01)				Matrix: Wate	er	Batch:	22F0143	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	06/03/22 17:00	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	06/03/22 17:00	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	06/03/22 17:00	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 99 %	Limits: 80-120 %	5 I	06/03/22 17:00	EPA 8260D SIM	
Toluene-d8 (Surr)			99 %	80-120 %	<i>i</i> 1	06/03/22 17:00	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			101 %	80-120 %	<i>I</i>	06/03/22 17:00	EPA 8260D SIM	
SW-2(052822) (A2F0009-02)				Matrix: Wate	er	Batch:	22F0143	
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1	06/03/22 17:27	EPA 8260D SIM	
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1	06/03/22 17:27	EPA 8260D SIM	
Vinyl chloride	ND	0.0100	0.0200	ug/L	1	06/03/22 17:27	EPA 8260D SIM	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80-120 %	5 1	06/03/22 17:27	EPA 8260D SIM	
Toluene-d8 (Surr)			100 %	80-120 %	<i>i</i> 1	06/03/22 17:27	EPA 8260D SIM	
4-Bromofluorobenzene (Surr)			101 %	80-120 %	1	06/03/22 17:27	EPA 8260D SIM	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number:[none]Report ID:Wilsonville, OR 97070Project Manager:Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

		Polychlorinat	ted Bipheny	ls by EPA 8082	2A			
Amelista	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
Analyte	Resuit	Limit	LIIIII					
SW-1(052822) (A2F0009-01)				Matrix: Water		Batch: 2	C-07	
Aroclor 1016	ND	0.00943	0.0189	ug/L	1	06/07/22 19:02	EPA 8082A	
Aroclor 1221	ND	0.00943	0.0189	ug/L	1	06/07/22 19:02	EPA 8082A	
Aroclor 1232	ND	0.00943	0.0189	ug/L	1	06/07/22 19:02	EPA 8082A	
Aroclor 1242	ND	0.00943	0.0189	ug/L	1	06/07/22 19:02	EPA 8082A	
Aroclor 1248	ND	0.00943	0.0189	ug/L	1	06/07/22 19:02	EPA 8082A	
Aroclor 1254	0.0113	0.00943	0.0189	ug/L	1	06/07/22 19:02	EPA 8082A	J
Aroclor 1260	ND	0.00943	0.0189	ug/L	1	06/07/22 19:02	EPA 8082A	
Aroclor 1262	ND	0.00943	0.0189	ug/L	1	06/07/22 19:02	EPA 8082A	
Aroclor 1268	ND	0.00943	0.0189	ug/L	1	06/07/22 19:02	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recov	very: 59 %	Limits: 40-135 %	6 I	06/07/22 19:02	EPA 8082A	
SW-2(052822) (A2F0009-02)				Matrix: Wate	er	Batch: 2	22F0177	C-07
Aroclor 1016	ND	0.00943	0.0189	ug/L	1	06/07/22 19:19	EPA 8082A	
Aroclor 1221	ND	0.00943	0.0189	ug/L	1	06/07/22 19:19	EPA 8082A	
Aroclor 1232	ND	0.00943	0.0189	ug/L	1	06/07/22 19:19	EPA 8082A	
Aroclor 1242	ND	0.00943	0.0189	ug/L	1	06/07/22 19:19	EPA 8082A	
Aroclor 1248	ND	0.00943	0.0189	ug/L	1	06/07/22 19:19	EPA 8082A	
Aroclor 1254	ND	0.00943	0.0189	ug/L	1	06/07/22 19:19	EPA 8082A	
Aroclor 1260	0.0395	0.00943	0.0189	ug/L	1	06/07/22 19:19	EPA 8082A	P-09
Aroclor 1262	ND	0.00943	0.0189	ug/L	1	06/07/22 19:19	EPA 8082A	
Aroclor 1268	ND	0.00943	0.0189	ug/L	1	06/07/22 19:19	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recor	very: 54 %	Limits: 40-135 %	6 I	06/07/22 19:19	EPA 8082A	

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 10 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

		nivolatile Org	•	,				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(052822) (A2F0009-01RE3)				Matrix: Wa	ater	Batch:	22F0121	
Aniline	ND	0.0467	0.0935	ug/L	1	06/06/22 12:07	EPA 8270E	
SW-1(052822) (A2F0009-01RE4)				Matrix: Wa	ater	Batch:	22F0121	
Acenaphthene	ND	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
Acenaphthylene	ND	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
Anthracene	ND	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
Benz(a)anthracene	0.0216	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
Benzo(a)pyrene	0.0350	0.0140	0.0280	ug/L	1	06/06/22 14:18	EPA 8270E	
Benzo(b)fluoranthene	0.0380	0.0140	0.0280	ug/L	1	06/06/22 14:18	EPA 8270E	
Benzo(k)fluoranthene	0.0160	0.0140	0.0280	ug/L	1	06/06/22 14:18	EPA 8270E	J
Benzo(g,h,i)perylene	0.0294	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
Chrysene	0.0406	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
Fluoranthene	0.0598	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	B-02
Fluorene	ND	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
Indeno(1,2,3-cd)pyrene	0.0215	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
l-Methylnaphthalene	ND	0.0187	0.0374	ug/L	1	06/06/22 14:18	EPA 8270E	
2-Methylnaphthalene	ND	0.0187	0.0374	ug/L	1	06/06/22 14:18	EPA 8270E	
Naphthalene	ND	0.0187	0.0374	ug/L	1	06/06/22 14:18	EPA 8270E	
Phenanthrene	0.0435	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	B-02
Pyrene	0.0621	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	B-02
Carbazole	ND	0.0140	0.0280	ug/L	1	06/06/22 14:18	EPA 8270E	
Dibenzofuran	ND	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
2-Chlorophenol	ND	0.0467	0.0935	ug/L	1	06/06/22 14:18	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.0935	0.187	ug/L	1	06/06/22 14:18	EPA 8270E	
2,4-Dichlorophenol	ND	0.0467	0.0935	ug/L	1	06/06/22 14:18	EPA 8270E	
2,4-Dimethylphenol	ND	0.0467	0.0935	ug/L	1	06/06/22 14:18	EPA 8270E	
2,4-Dinitrophenol	ND	0.234	0.467	ug/L	1	06/06/22 14:18	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.234	0.467	ug/L	1	06/06/22 14:18	EPA 8270E	
2-Methylphenol	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
3+4-Methylphenol(s)	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
2-Nitrophenol	ND	0.0935	0.187	ug/L	1	06/06/22 14:18	EPA 8270E	
4-Nitrophenol	ND	0.187	0.187	ug/L	1	06/06/22 14:18	EPA 8270E	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

Matrix Water Batch: 22F0121		Sem	nivolatile Org	anic Compo	unds by EP	A 8270E			
Matrix Water Batch: 22F0121		•		1 0					
Pentachlorophenol (PCP)	Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
Phenol	SW-1(052822) (A2F0009-01RE4)				Matrix: W	ater	Batch:	22F0121	
2,3,4,6-Tetrachlorophenol ND 0,0467 0,0935 ug/L 1 0606/22 14:18 EPA 8270E 2,3,5,6-Tetrachlorophenol ND 0,0467 0,0935 ug/L 1 0606/22 14:18 EPA 8270E 2,4,5-Trichlorophenol ND 0,0467 0,0935 ug/L 1 0606/22 14:18 EPA 8270E Bis(2-ethylhexy)phthalate 0,212 0,187 0,374 ug/L 1 0606/22 14:18 EPA 8270E Butyl benzyl phthalate ND 0,187 0,374 ug/L 1 0606/22 14:18 EPA 8270E Dimethylphthalate ND 0,187 0,374 ug/L 1 0606/22 14:18 EPA 8270E Dimethylphthalate ND 0,187 0,374 ug/L 1 0606/22 14:18 EPA 8270E Dimethylphthalate ND 0,187 0,374 ug/L 1 0606/22 14:18 EPA 8270E Dimethylphthalate ND 0,187 0,374 ug/L 1 0606/22 14:18 EPA 8270E Dimethylph	Pentachlorophenol (PCP)	0.0950	0.0935	0.187	ug/L	1	06/06/22 14:18	EPA 8270E	J
2,3,5,6-Tetrachlorophenol ND 0,0467 0,0935 ug/L 1 0606/22 14:18 EPA 8270E 2,4,5-Trichlorophenol ND 0,0467 0,0935 ug/L 1 0606/22 14:18 EPA 8270E Bis(2-ethylbex)Pjhthalate 0,212 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Buryl benzyl phthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Diethylphthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Dimethylphthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Dimethylphthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Di-n-burylphthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Di-n-burylphthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Di-n-burylphthala	Phenol	ND	0.187	0.374	ug/L	1	06/06/22 14:18	EPA 8270E	
2,4,5-Trichlorophenol ND 0.0467 0.0935 ug/L 1 0606/22 14:18 EPA 8270E 2,4,6-Trichlorophenol ND 0.0467 0.0935 ug/L 1 0606/22 14:18 EPA 8270E Bis/2-ethylhex/lphthalate 0.212 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Bisyl benzyl phthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Dien-bulylphthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Dien-bulylphthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Dien-bulylphthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Dien-bulylphthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E Dien-bulylphthalate ND 0.0234 0.0467 ug/L 1 0606/22 14:18 EPA 8270E Dien-bulylph	2,3,4,6-Tetrachlorophenol	ND	0.0467	0.0935	ug/L	1	06/06/22 14:18	EPA 8270E	
2,4,6-Trichlorophenol ND 0.0467 0.0935 ug/L 1 060622 14:18 EPA 8270E Bis(2-ethylbexyl)phthalate 0.212 0.187 0.374 ug/L 1 060622 14:18 EPA 8270E Butyl benzyl phthalate ND 0.187 0.374 ug/L 1 060622 14:18 EPA 8270E Dienbylphthalate ND 0.187 0.374 ug/L 1 060622 14:18 EPA 8270E Di-n-butylphthalate ND 0.187 0.374 ug/L 1 060622 14:18 EPA 8270E Di-n-butylphthalate ND 0.187 0.374 ug/L 1 060622 14:18 EPA 8270E Di-n-butylphthalate ND 0.187 0.374 ug/L 1 060622 14:18 EPA 8270E N-Nitrosodimethylamine ND 0.0234 0.0467 ug/L 1 060622 14:18 EPA 8270E N-Nitrosodimethylamine ND 0.0234 0.0467 ug/L 1 060622 14:18 EPA 8270E Bis(2-Chloroethoxy)	2,3,5,6-Tetrachlorophenol	ND	0.0467	0.0935	ug/L	1	06/06/22 14:18	EPA 8270E	
Bis(2-ethylhexyl)phthalate 0.212 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Butyl benzyl phthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Diethylphthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Di-n-butylphthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Di-n-butylphthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Di-n-octyl phthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodimethylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodimethylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethoxy) methane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E	2,4,5-Trichlorophenol	ND	0.0467	0.0935	ug/L	1	06/06/22 14:18	EPA 8270E	
Butyl benzyl phthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E	2,4,6-Trichlorophenol	ND	0.0467	0.0935	ug/L	1	06/06/22 14:18	EPA 8270E	
Diethylphthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Dimethylphthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Di-n-butylphthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Di-n-octyl phthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodimethylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodiphenylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodiphenylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodiphenylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethoxy) methane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E <td< td=""><td>Bis(2-ethylhexyl)phthalate</td><td>0.212</td><td>0.187</td><td>0.374</td><td>ug/L</td><td>1</td><td>06/06/22 14:18</td><td>EPA 8270E</td><td>J</td></td<>	Bis(2-ethylhexyl)phthalate	0.212	0.187	0.374	ug/L	1	06/06/22 14:18	EPA 8270E	J
Dimethylphthalate ND 0.187 0.374 ug/L 1 0606/22 14:18 EPA 8270E	Butyl benzyl phthalate	ND	0.187	0.374	ug/L	1	06/06/22 14:18	EPA 8270E	
Di-n-butylphthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Di-n-octyl phthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodimethylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodimethylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodimethylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethoxy) methane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophorpane) ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E	Diethylphthalate	ND	0.187	0.374	ug/L	1	06/06/22 14:18	EPA 8270E	
Di-n-octyl phthalate ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodimethylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodiphenylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodiphenylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethoxy) methane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethoxy) methane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethoxy) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl ether ND 0.0034 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorobenzene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E <	Dimethylphthalate	ND	0.187	0.374	ug/L	1	06/06/22 14:18	EPA 8270E	
N-Nitrosodimethylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodip-n-propylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodiphenylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethoxy) methane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloropopane) ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorobenzene ND 0.00935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E Hexachloroethotuadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachloroeyclopentadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachloroephadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachloroephane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Lexachloroephanyl ether	Di-n-butylphthalate	ND	0.187	0.374	ug/L	1	06/06/22 14:18	EPA 8270E	
N-Nitroso-di-n-propylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E N-Nitrosodiphenylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethoxy) methane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloropthyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloropthyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloropthyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloropthyl) ether ND 0.0935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloropthyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloropthyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) ether ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) ether ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) Denyl ether ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) Denyl ether ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) Denyl ether ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) Denyl ether ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) Denyl ether ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chlorophenyl) Denyl ether ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E	Di-n-octyl phthalate	ND	0.187	0.374	ug/L	1	06/06/22 14:18	EPA 8270E	
N-Nitrosodiphenylamine ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethoxy) methane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloropropane) ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloropropane) ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloropropane) ND 0.00935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E Bexachlorobutadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bexachloropethane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bexachloropethane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bexachloropethane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bexachloropethane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bexachloropethane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bexachloropethane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bexachloropethane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bexachlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bexachlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bexachlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bexachlorophenyl ug/L 1 06/0	N-Nitrosodimethylamine	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
Bis(2-Chloroethoxy) methane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Bis(2-Chloroethyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2,2'-Oxybis(1-Chloropropane) ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorobenzene ND 0.00935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorobutadiene ND 0.0467 0.0935 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0467 0.0935 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0467 0.0935 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270	N-Nitroso-di-n-propylamine	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
Bis(2-Chloroethyl) ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2,2'-Oxybis(1-Chloropropane) ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorobenzene ND 0.00935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorobutadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0467 0.0935 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorophthalene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Chloronaphthalene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 1,2,4-Trichlorobenzene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Bromophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 3-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 3-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitrobenzene ND 0.0935 0.187 ug/L 1 06/06/21 14:18 EPA 8270E 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	N-Nitrosodiphenylamine	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
2,2'-Oxybis(1-Chloropropane) ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorobenzene ND 0.00935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorobutadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0467 0.0935 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorochlane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Chloroaphthalene ND 0.00935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E 4-Bromophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chloroaniline ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E <t< td=""><td>Bis(2-Chloroethoxy) methane</td><td>ND</td><td>0.0234</td><td>0.0467</td><td>ug/L</td><td>1</td><td>06/06/22 14:18</td><td>EPA 8270E</td><td></td></t<>	Bis(2-Chloroethoxy) methane	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
Hexachlorobenzene ND 0.00935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorobutadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0467 0.0935 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Chloroaphthalene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E	Bis(2-Chloroethyl) ether	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
Hexachlorobutadiene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocyclopentadiene ND 0.0467 0.0935 ug/L 1 06/06/22 14:18 EPA 8270E Hexachlorocthane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Chloronaphthalene ND 0.00935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E 1,2,4-Trichlorobenzene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Bromophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E	2,2'-Oxybis(1-Chloropropane)	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
Hexachlorocyclopentadiene ND 0.0467 0.0935 ug/L 1 06/06/22 14:18 EPA 8270E Hexachloroethane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Chloronaphthalene ND 0.00935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E 1,2,4-Trichlorobenzene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Bromophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chloroaniline ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Nit	Hexachlorobenzene	ND	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
Hexachloroethane ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Chloronaphthalene ND 0.00935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E 1,2,4-Trichlorobenzene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Bromophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chloroaniline ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Nitrobenzene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E 2,4-Dinitrotoluen	Hexachlorobutadiene	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
2-Chloronaphthalene ND 0.00935 0.0187 ug/L 1 06/06/22 14:18 EPA 8270E 1,2,4-Trichlorobenzene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Bromophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chloroaniline ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Nitrobenzene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E 2,4-Dinitrotoluene ND 0.0935 0.187 ug/L 1 06/06/22 14:18	Hexachlorocyclopentadiene	ND	0.0467	0.0935	ug/L	1	06/06/22 14:18	EPA 8270E	
1,2,4-Trichlorobenzene ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Bromophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chloroaniline ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 3-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Nitrobenzene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E 2,4-Dinitrotoluene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E	Hexachloroethane	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
4-Bromophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chloroaniline ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 3-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Nitrobenzene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E 2,4-Dinitrotoluene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E	2-Chloronaphthalene	ND	0.00935	0.0187	ug/L	1	06/06/22 14:18	EPA 8270E	
4-Chlorophenyl phenyl ether ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 4-Chloroaniline ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 3-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Nitrobenzene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E 2,4-Dinitrotoluene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E	1,2,4-Trichlorobenzene	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
4-Chloroaniline ND 0.0234 0.0467 ug/L 1 06/06/22 14:18 EPA 8270E 2-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 3-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Nitrobenzene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E 2,4-Dinitrotoluene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E	4-Bromophenyl phenyl ether	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
2-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 3-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Nitrobenzene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E 2,4-Dinitrotoluene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E	4-Chlorophenyl phenyl ether	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
3-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E 4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Nitrobenzene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E 2,4-Dinitrotoluene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E	4-Chloroaniline	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
4-Nitroaniline ND 0.187 0.374 ug/L 1 06/06/22 14:18 EPA 8270E Nitrobenzene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E 2,4-Dinitrotoluene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E	2-Nitroaniline	ND	0.187	0.374	ug/L	1	06/06/22 14:18	EPA 8270E	
Nitrobenzene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E 2,4-Dinitrotoluene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E	3-Nitroaniline	ND	0.187	0.374	ug/L	1	06/06/22 14:18	EPA 8270E	
2,4-Dinitrotoluene ND 0.0935 0.187 ug/L 1 06/06/22 14:18 EPA 8270E	4-Nitroaniline	ND	0.187	0.374	ug/L	1	06/06/22 14:18	EPA 8270E	
	Nitrobenzene	ND	0.0935	0.187	ug/L	1	06/06/22 14:18	EPA 8270E	
	2,4-Dinitrotoluene	ND	0.0935	0.187	_	1	06/06/22 14:18	EPA 8270E	
2,0-Dillitotolitelle 1\(\text{1}\) 0.0755 0.167 \(\text{ug/L}\) 1 00/00/22 14.16 \(\text{E11}\) 02/0E	2,6-Dinitrotoluene	ND	0.0935	0.187	ug/L	1	06/06/22 14:18	EPA 8270E	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

	Sen	nivolatile Org	anic Comp	ounds by EPA 8	270E			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
SW-1(052822) (A2F0009-01RE4)				Matrix: Wate	r	Batch:	22F0121	
Benzoic acid	ND	1.17	2.34	ug/L	1	06/06/22 14:18	EPA 8270E	
Benzyl alcohol	ND	0.0935	0.187	ug/L	1	06/06/22 14:18	EPA 8270E	
Isophorone	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.234	0.467	ug/L	1	06/06/22 14:18	EPA 8270E	
3,3'-Dichlorobenzidine	ND	0.467	0.935	ug/L	1	06/06/22 14:18	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.234	0.467	ug/L	1	06/06/22 14:18	EPA 8270E	
1,3-Dinitrobenzene	ND	0.234	0.467	ug/L	1	06/06/22 14:18	EPA 8270E	
1,4-Dinitrobenzene	ND	0.234	0.467	ug/L	1	06/06/22 14:18	EPA 8270E	
Pyridine	ND	0.0935	0.187	ug/L	1	06/06/22 14:18	EPA 8270E	
1,2-Dichlorobenzene	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0234	0.0467	ug/L	1	06/06/22 14:18	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Reco	very: 40 %	Limits: 44-120 %	I	06/06/22 14:18	EPA 8270E	S-06
2-Fluorobiphenyl (Surr)			47 %	44-120 %	1	06/06/22 14:18	EPA 8270E	
Phenol-d6 (Surr)			13 %	10-133 %	1	06/06/22 14:18	EPA 8270E	
p-Terphenyl-d14 (Surr)			70 %	50-134 %	1	06/06/22 14:18	EPA 8270E	
2-Fluorophenol (Surr)			19 %	19-120 %		06/06/22 14:18	EPA 8270E	
2,4,6-Tribromophenol (Surr)			83 %	43-140 %	I	06/06/22 14:18	EPA 8270E	
SW-2(052822) (A2F0009-02RE1)				Matrix: Wate	r	Batch:	22F0121	
Acenaphthene	ND	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	
Acenaphthylene	ND	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	
Anthracene	ND	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	
Benz(a)anthracene	0.0691	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	J
Benzo(a)pyrene	0.146	0.0561	0.112	ug/L	4	06/03/22 16:55	EPA 8270E	
Benzo(b)fluoranthene	0.187	0.0561	0.112	ug/L	4	06/03/22 16:55	EPA 8270E	
Benzo(k)fluoranthene	0.0733	0.0561	0.112	ug/L	4	06/03/22 16:55	EPA 8270E	J
Benzo(g,h,i)perylene	0.114	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	
Chrysene	0.151	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	
Dibenz(a,h)anthracene	ND	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	
Fluoranthene	0.238	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	B-02
	0.200							
Fluorene	ND	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

<u>NV5</u> Project: <u>BCSAmerica-1-02</u>

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
SW-2(052822) (A2F0009-02RE1)				Matrix: Wa	ater	Batch:	22F0121	
l-Methylnaphthalene	ND	0.0748	0.150	ug/L	4	06/03/22 16:55	EPA 8270E	
2-Methylnaphthalene	ND	0.0748	0.150	ug/L	4	06/03/22 16:55	EPA 8270E	
Naphthalene	ND	0.0748	0.150	ug/L	4	06/03/22 16:55	EPA 8270E	
Phenanthrene	0.0889	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	B-02
Pyrene	0.200	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	B-02
Carbazole	ND	0.0561	0.112	ug/L	4	06/03/22 16:55	EPA 8270E	
Dibenzofuran	ND	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	
2-Chlorophenol	ND	0.187	0.374	ug/L	4	06/03/22 16:55	EPA 8270E	
4-Chloro-3-methylphenol	ND	0.374	0.748	ug/L	4	06/03/22 16:55	EPA 8270E	
2,4-Dichlorophenol	ND	0.187	0.374	ug/L	4	06/03/22 16:55	EPA 8270E	
2,4-Dimethylphenol	ND	0.187	0.374	ug/L	4	06/03/22 16:55	EPA 8270E	
2,4-Dinitrophenol	ND	0.935	1.87	ug/L	4	06/03/22 16:55	EPA 8270E	
4,6-Dinitro-2-methylphenol	ND	0.935	1.87	ug/L	4	06/03/22 16:55	EPA 8270E	
2-Methylphenol	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
8+4-Methylphenol(s)	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
2-Nitrophenol	ND	0.374	0.748	ug/L	4	06/03/22 16:55	EPA 8270E	
1-Nitrophenol	ND	0.374	0.748	ug/L	4	06/03/22 16:55	EPA 8270E	
Pentachlorophenol (PCP)	ND	0.374	0.748	ug/L	4	06/03/22 16:55	EPA 8270E	
Phenol	ND	0.748	1.50	ug/L	4	06/03/22 16:55	EPA 8270E	
2,3,4,6-Tetrachlorophenol	ND	0.187	0.374	ug/L	4	06/03/22 16:55	EPA 8270E	
2,3,5,6-Tetrachlorophenol	ND	0.187	0.374	ug/L	4	06/03/22 16:55	EPA 8270E	
2,4,5-Trichlorophenol	ND	0.187	0.374	ug/L	4	06/03/22 16:55	EPA 8270E	
2,4,6-Trichlorophenol	ND	0.187	0.374	ug/L	4	06/03/22 16:55	EPA 8270E	
Bis(2-ethylhexyl)phthalate	ND	0.748	1.50	ug/L	4	06/03/22 16:55	EPA 8270E	
Butyl benzyl phthalate	ND	0.748	1.50	ug/L	4	06/03/22 16:55	EPA 8270E	
Diethylphthalate	ND	0.748	1.50	ug/L	4	06/03/22 16:55	EPA 8270E	
Dimethylphthalate	ND	0.748	1.50	ug/L	4	06/03/22 16:55	EPA 8270E	
Di-n-butylphthalate	ND	0.748	1.50	ug/L	4	06/03/22 16:55	EPA 8270E	
Di-n-octyl phthalate	ND	0.748	1.50	ug/L	4	06/03/22 16:55	EPA 8270E	
N-Nitrosodimethylamine	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
N-Nitroso-di-n-propylamine	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
N-Nitrosodiphenylamine	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
Bis(2-Chloroethoxy) methane	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
SW-2(052822) (A2F0009-02RE1)				Matrix: Wate	er -	Batch:	22F0121	
Bis(2-Chloroethyl) ether	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
2,2'-Oxybis(1-Chloropropane)	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
Hexachlorobenzene	ND	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	
Hexachlorobutadiene	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
Hexachlorocyclopentadiene	ND	0.187	0.374	ug/L	4	06/03/22 16:55	EPA 8270E	
Hexachloroethane	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
2-Chloronaphthalene	ND	0.0374	0.0748	ug/L	4	06/03/22 16:55	EPA 8270E	
1,2,4-Trichlorobenzene	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
4-Bromophenyl phenyl ether	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
4-Chlorophenyl phenyl ether	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
4-Chloroaniline	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
2-Nitroaniline	ND	0.748	1.50	ug/L	4	06/03/22 16:55	EPA 8270E	
3-Nitroaniline	ND	0.748	1.50	ug/L	4	06/03/22 16:55	EPA 8270E	
4-Nitroaniline	ND	0.748	1.50	ug/L	4	06/03/22 16:55	EPA 8270E	
Nitrobenzene	ND	0.374	0.748	ug/L	4	06/03/22 16:55	EPA 8270E	
2,4-Dinitrotoluene	ND	0.374	0.748	ug/L	4	06/03/22 16:55	EPA 8270E	
2,6-Dinitrotoluene	ND	0.374	0.748	ug/L	4	06/03/22 16:55	EPA 8270E	
Benzoic acid	ND	4.67	9.35	ug/L	4	06/03/22 16:55	EPA 8270E	
Benzyl alcohol	ND	0.374	0.748	ug/L	4	06/03/22 16:55	EPA 8270E	
Isophorone	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
Azobenzene (1,2-DPH)	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
Bis(2-Ethylhexyl) adipate	ND	0.935	1.87	ug/L	4	06/03/22 16:55	EPA 8270E	
3,3'-Dichlorobenzidine	ND	1.87	3.74	ug/L	4	06/03/22 16:55	EPA 8270E	Q-52
1,2-Dinitrobenzene	ND	0.935	1.87	ug/L	4	06/03/22 16:55	EPA 8270E	
1,3-Dinitrobenzene	ND	0.935	1.87	ug/L	4	06/03/22 16:55	EPA 8270E	
1,4-Dinitrobenzene	ND	0.935	1.87	ug/L	4	06/03/22 16:55	EPA 8270E	
Pyridine	ND	0.374	0.748	ug/L	4	06/03/22 16:55	EPA 8270E	
1,2-Dichlorobenzene	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
1,3-Dichlorobenzene	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
1,4-Dichlorobenzene	ND	0.0935	0.187	ug/L	4	06/03/22 16:55	EPA 8270E	
Surrogate: Nitrobenzene-d5 (Surr)		Recov	very: 35 %	Limits: 44-120 %	ó 4	06/03/22 16:55	EPA 8270E	S-03
2-Fluorobiphenyl (Surr)			48 %	44-120 %		06/03/22 16:55	EPA 8270E	
Phenol-d6 (Surr)			11 %	10-133 %	ó 4	06/03/22 16:55	EPA 8270E	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E											
Analyte	Sample Result	Detection Limit	Reporting Limit	Uni	its	Dilution	Date Analyzed	Method Ref.	Notes		
7-2(052822) (A2F0009-02RE1) Matrix: Water Batch: 22F0121											
Surrogate: p-Terphenyl-d14 (Surr)		Reco	very: 75 %	Limits: 5	50-134 %	5 4	06/03/22 16:55	EPA 8270E			
2-Fluorophenol (Surr)			16 %	Ì	19-120 %	4	06/03/22 16:55	EPA 8270E	S-03		
2,4,6-Tribromophenol (Surr)			85 %	4	43-140 %	4	06/03/22 16:55	EPA 8270E			
SW-2(052822) (A2F0009-02RE2)				Matri	x: Wate	er	Batch:	22F0121			
Aniline	ND	0.187	0.374	ug	g/L	4	06/06/22 12:43	EPA 8270E			

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS)											
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes			
SW-1(052822) (A2F0009-01)				Matrix: W	ater						
Batch: 22F0182											
Antimony	ND	0.500	1.00	ug/L	1	06/07/22 02:46	EPA 200.8				
Beryllium	ND	0.100	0.200	ug/L	1	06/07/22 02:46	EPA 200.8				
Chromium	5.54	1.00	2.00	ug/L	1	06/07/22 02:46	EPA 200.8				
Copper	19.8	1.00	2.00	ug/L	1	06/07/22 02:46	EPA 200.8				
Lead	4.78	0.100	0.200	ug/L	1	06/07/22 02:46	EPA 200.8				
Mercury	ND	0.0400	0.0800	ug/L	1	06/07/22 02:46	EPA 200.8				
Nickel	1.57	1.00	2.00	ug/L	1	06/07/22 02:46	EPA 200.8	J			
Selenium	ND	0.500	1.00	ug/L	1	06/07/22 02:46	EPA 200.8				
Silver	ND	0.100	0.200	ug/L	1	06/07/22 02:46	EPA 200.8				
Thallium	ND	0.100	0.200	ug/L	1	06/07/22 02:46	EPA 200.8				
Zinc	72.9	2.00	4.00	ug/L	1	06/07/22 02:46	EPA 200.8				
SW-2(052822) (A2F0009-02)				Matrix: W	ater						
Batch: 22F0182											
Antimony	ND	0.500	1.00	ug/L	1	06/07/22 02:51	EPA 200.8				
Beryllium	ND	0.100	0.200	ug/L	1	06/07/22 02:51	EPA 200.8				
Chromium	1.60	1.00	2.00	ug/L	1	06/07/22 02:51	EPA 200.8	J			
Copper	5.93	1.00	2.00	ug/L	1	06/07/22 02:51	EPA 200.8				
Lead	3.36	0.100	0.200	ug/L	1	06/07/22 02:51	EPA 200.8				
Mercury	ND	0.0400	0.0800	ug/L	1	06/07/22 02:51	EPA 200.8				
Nickel	1.05	1.00	2.00	ug/L	1	06/07/22 02:51	EPA 200.8	J			
Selenium	ND	0.500	1.00	ug/L	1	06/07/22 02:51	EPA 200.8				
Silver	ND	0.100	0.200	ug/L	1	06/07/22 02:51	EPA 200.8				
Thallium	ND	0.100	0.200	ug/L	1	06/07/22 02:51	EPA 200.8				
Zinc	40.7	2.00	4.00	ug/L	1	06/07/22 02:51	EPA 200.8				

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

<u>NV5</u> Project: <u>BCSAmerica-1-02</u>

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 200.8 (ICPMS) - Low Level													
	Sample	Detection	Reporting	ng Date									
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes					
SW-1(052822) (A2F0009-01)				Matrix: W	ater								
Batch: 22F0281													
Arsenic	0.357	0.100	0.200	ug/L	1	06/09/22 22:00	EPA 200.8-LL						
Cadmium	0.0523	0.0200	0.0400	ug/L	1	06/09/22 22:00	EPA 200.8-LL						
SW-2(052822) (A2F0009-02)				Matrix: W	ater								
Batch: 22F0281													
Arsenic	0.386	0.100	0.200	ug/L	1	06/09/22 22:08	EPA 200.8-LL						
Cadmium	0.0534	0.0200	0.0400	ug/L	1	06/09/22 22:08	EPA 200.8-LL						

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

ANALYTICAL SAMPLE RESULTS

Solid and Moisture Determinations													
Analyte	Sample Detection Reporting Date Result Limit Limit Units Dilution Analyzed Method Ref.												
SW-1(052822) (A2F0009-01)	Matrix: Water												
Batch: 22F0112													
Total Suspended Solids	21.4	5.00	5.00	mg/L	1	06/02/22 18:53	SM 2540 D						
SW-2(052822) (A2F0009-02)				Matrix: W	ater								
Batch: 22F0112													
Total Suspended Solids	36.8	5.00	5.00	mg/L 1 06/02/22 18:53 SM 2540 D									

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 19 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

<u>NV5</u> Project: <u>BCSAmerica-1-02</u>

9450 SW Commerce CircleProject Number:[none]Report ID:Wilsonville, OR 97070Project Manager:Erik HedbergA2F0009 - 07 09 22 1453

Weck Laboratories, Inc.

ANALYTICAL SAMPLE RESULTS (Subcontracted)

Organo Tin by GC/MS											
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes			
SW-1(052822) (A2F0009-01)				Matrix: Wate	er	Batch: \					
Batch: W2F0377											
Tri-n-butyltin Batch: W2F0377	ND		0.0050	ug/l	1	06/10/22 18:56	SM 6710B				
Surrogate: Tripentyltin		Recov	ery: 112 %	Limits: 43-179 %	5 1	06/10/22 18:56	SM 6710B				
SW-2(052822) (A2F0009-02)				Matrix: Wate	er	Batch: \	N2F0377				
Batch: W2F0377											
Tri-n-butyltin Batch: W2F0377	ND		0.0050	ug/l	1	06/10/22 19:15	SM 6710B				
Surrogate: Tripentyltin		Recove	ery: 120 %	Limits: 43-179 %	5 I	06/10/22 19:15	SM 6710B				

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

		Di	esel and/c	r Oil Hyd	rocarbor	s by NWT	PH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0123 - EPA 3510C (Fuels/Acid	Ext.)					Wa	ter				
Blank (22F0123-BLK1)			Prepared	1: 06/03/22	05:26 Anal	lyzed: 06/03/	/22 21:59					
NWTPH-Dx												
Diesel	ND	0.0909	0.182	mg/L	1							
Oil	ND	0.182	0.364	mg/L	1							
Surr: o-Terphenyl (Surr)		Reco	very: 98 %	Limits: 50)-150 %	Dilu	ution: 1x					
LCS (22F0123-BS1)			Prepared	1: 06/03/22	05:26 Ana	lyzed: 06/03/	/22 22:21					
NWTPH-Dx												
Diesel	1.10	0.100	0.200	mg/L	1	1.25		88	36-132%			
Surr: o-Terphenyl (Surr)		Recov	ery: 102 %	Limits: 50)-150 %	Dilu	ution: 1x					
LCS Dup (22F0123-BSD1)			Prepared	1: 06/03/22	05:26 Anal	lyzed: 06/03/	/22 22:43					Q -1
NWTPH-Dx												
Diesel	1.10	0.100	0.200	mg/L	1	1.25		88	36-132%	0.2	30%	
Surr: o-Terphenyl (Surr)		Reco	very: 97 %	Limits: 50	-150 %	Dilu	tion: 1x					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolin	ne Range H	lydrocarbo	ons (Ben	zene thro	ugh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0069 - EPA 5030B							Wa	iter				
Blank (22F0069-BLK1)			Prepare	d: 06/02/22	08:00 Ana	lyzed: 06/02	/22 11:26					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 99 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			105 %	5	0-150 %		"					
LCS (22F0069-BS2)			Prepared	d: 06/02/22	08:00 Ana	yzed: 06/02	/22 10:59					
NWTPH-Gx (MS)												
Gasoline Range Organics	0.496	0.0500	0.100	mg/L	1	0.500		99	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 98 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			99 %	5	0-150 %		"					
Duplicate (22F0069-DUP1)			Prepare	d: 06/02/22	11:06 Ana	yzed: 06/02	/22 12:47					
QC Source Sample: SW-1(052822	(A2F0009-	<u>01)</u>										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 101 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			106 %	5	0-150 %		"					
Duplicate (22F0069-DUP2)			Prepare	d: 06/02/22	11:06 Ana	yzed: 06/02	/22 18:40					
OC Source Sample: Non-SDG (A2	2F0052-05)											
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 103 %	Limits: 5	0-150 %	Dilı	ution: 1x		<u> </u>			
1,4-Difluorobenzene (Sur)			108 %	5	0-150 %		"					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 22F0069 - EPA 5030B Water Blank (22F0069-BLK1) Prepared: 06/02/22 08:00 Analyzed: 06/02/22 11:26 EPA 8260D ND 10.0 20.0 ug/L Acetone ND 2.00 Acrylonitrile 1.00 ug/L 1 Benzene ND 0.100 0.200 ug/L 1 Bromobenzene ND 0.250 0.500 ug/L 1 Bromochloromethane ND 0.500 1.00 ug/L 1 ND Bromodichloromethane 0.500 1.00 ug/L 1 Bromoform ND 0.500 1.00 ug/L 1 5.00 Bromomethane ND 5.00 ug/L 1 2-Butanone (MEK) ND 5.00 10.0 ug/L 1 n-Butylbenzene ND 0.500 1.00 1 ug/L sec-Butylbenzene ND 0.500 1.00 ug/L 1 ND 0.500 tert-Butylbenzene 1.00 1 ug/L ---Carbon disulfide ND 5.00 10.0 ug/L 1 Carbon tetrachloride ND 0.500 1.00 ug/L 1 Chlorobenzene ND 0.250 0.500 ug/L 1 Chloroethane ND 25.0 25.0 ug/L 1 EST ------Chloroform ND 0.500 1.00 ug/L 1 ND 2.50 5.00 Chloromethane 1 ug/L ---2-Chlorotoluene ND 0.500 1.00 ug/L 1 4-Chlorotoluene ND 0.500 1.00 ug/L 1 Dibromochloromethane ND 0.500 1.00 ug/L 1 1,2-Dibromo-3-chloropropane ND 2.50 5.00 ug/L 1 1,2-Dibromoethane (EDB) ND 0.250 0.500 ug/L 1 Dibromomethane ND 0.500 1.00 ug/L 1 0.250 1,2-Dichlorobenzene ND 0.500 ug/L 1 1,3-Dichlorobenzene ND 0.250 0.500 ug/L 1 1,4-Dichlorobenzene ND 0.250 0.500 ug/L 1 Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 ---1,1-Dichloroethane ND 0.200 0.400ug/L 1 0.200 1,2-Dichloroethane (EDC) ND 0.400ug/L 1 1,1-Dichloroethene ND 0.200 0.400ug/L 1 cis-1,2-Dichloroethene ND 0.200 0.400 ug/L 1 0.200 0.400 trans-1,2-Dichloroethene ND ug/L 1

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 23 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number:[none]Report ID:Wilsonville, OR 97070Project Manager:Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0069 - EPA 5030B							Wat	er				
Blank (22F0069-BLK1)			Prepared	: 06/02/22	08:00 Anal	yzed: 06/02/	/22 11:26					
,2-Dichloropropane	ND	0.250	0.500	ug/L	1							
,3-Dichloropropane	ND	0.500	1.00	ug/L	1							
,2-Dichloropropane	ND	0.500	1.00	ug/L	1							
,1-Dichloropropene	ND	0.500	1.00	ug/L	1							
is-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
rans-1,3-Dichloropropene	ND	0.500	1.00	ug/L	1							
Ethylbenzene	ND	0.250	0.500	ug/L	1							
Iexachlorobutadiene	ND	2.50	5.00	ug/L	1							
-Hexanone	ND	5.00	10.0	ug/L	1							
sopropylbenzene	ND	0.500	1.00	ug/L	1							
-Isopropyltoluene	ND	0.500	1.00	ug/L	1							
Methylene chloride	ND	5.00	10.0	ug/L	1							
-Methyl-2-pentanone (MiBK)	ND	5.00	10.0	ug/L	1							
Methyl tert-butyl ether (MTBE)	ND	0.500	1.00	ug/L	1							
Naphthalene	ND	1.00	2.00	ug/L	1							
-Propylbenzene	ND	0.250	0.500	ug/L	1							
Styrene	ND	0.500	1.00	ug/L	1							
,1,1,2-Tetrachloroethane	ND	0.200	0.400	ug/L	1							
,1,2,2-Tetrachloroethane	ND	0.250	0.500	ug/L	1							
Tetrachloroethene (PCE)	ND	0.200	0.400	ug/L	1							
Coluene	ND	0.500	1.00	ug/L	1							
,2,3-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
,2,4-Trichlorobenzene	ND	1.00	2.00	ug/L	1							
,1,1-Trichloroethane	ND	0.200	0.400	ug/L	1							
,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1							
Frichloroethene (TCE)	ND	0.200	0.400	ug/L	1							
richlorofluoromethane	ND	1.00	2.00	ug/L	1							
,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1							
,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1							
/inyl chloride	ND	0.200	0.400	ug/L	1							
n,p-Xylene	ND	0.500	1.00	ug/L	1							
-Xylene	ND	0.250	0.500	ug/L ug/L	1							

Surr: 1,4-Difluorobenzene (Surr) Recovery: 102 % Limits: 80-120 % Dilution: 1x

Apex Laboratories

Philip Manherg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0069 - EPA 5030B							Wa	iter				
Blank (22F0069-BLK1)			Prepared	1: 06/02/22	08:00 Ana	lyzed: 06/02	/22 11:26					
Surr: Toluene-d8 (Surr)		Recov	very: 101 %	Limits: 80	0-120 %	Dili	ution: 1x					
4-Bromofluorobenzene (Surr)			100 %	80	0-120 %		"					
LCS (22F0069-BS1)			Prepared	l: 06/02/22	08:00 Ana	yzed: 06/02	/22 10:26					
EPA 8260D												
Acetone	54.9	10.0	20.0	ug/L	1	40.0		137	80-120%			Q-5
Acrylonitrile	19.8	1.00	2.00	ug/L	1	20.0		99	80-120%			
Benzene	19.6	0.100	0.200	ug/L	1	20.0		98	80-120%			
Bromobenzene	18.4	0.250	0.500	ug/L	1	20.0		92	80-120%			
Bromochloromethane	22.0	0.500	1.00	ug/L	1	20.0		110	80-120%			
Bromodichloromethane	21.5	0.500	1.00	ug/L	1	20.0		107	80-120%			
Bromoform	19.5	0.500	1.00	ug/L	1	20.0		97	80-120%			
Bromomethane	26.6	5.00	5.00	ug/L	1	20.0		133	80-120%			Q-5
2-Butanone (MEK)	49.0	5.00	10.0	ug/L	1	40.0		123	80-120%			Q-5
n-Butylbenzene	24.1	0.500	1.00	ug/L	1	20.0		120	80-120%			
sec-Butylbenzene	23.3	0.500	1.00	ug/L	1	20.0		117	80-120%			
tert-Butylbenzene	21.5	0.500	1.00	ug/L	1	20.0		108	80-120%			
Carbon disulfide	30.4	5.00	10.0	ug/L	1	20.0		152	80-120%			Q-5
Carbon tetrachloride	23.1	0.500	1.00	ug/L	1	20.0		116	80-120%			
Chlorobenzene	19.9	0.250	0.500	ug/L	1	20.0		99	80-120%			
Chloroethane	49.9	25.0	25.0	ug/L	1	20.0		250	80-120%			Q-56, ES
Chloroform	20.8	0.500	1.00	ug/L	1	20.0		104	80-120%			
Chloromethane	24.7	2.50	5.00	ug/L	1	20.0		123	80-120%			Q-5
2-Chlorotoluene	19.6	0.500	1.00	ug/L	1	20.0		98	80-120%			
4-Chlorotoluene	20.6	0.500	1.00	ug/L	1	20.0		103	80-120%			
Dibromochloromethane	22.7	0.500	1.00	ug/L	1	20.0		113	80-120%			
1,2-Dibromo-3-chloropropane	18.7	2.50	5.00	ug/L	1	20.0		93	80-120%			
1,2-Dibromoethane (EDB)	20.7	0.250	0.500	ug/L	1	20.0		104	80-120%			
Dibromomethane	21.8	0.500	1.00	ug/L	1	20.0		109	80-120%			
1,2-Dichlorobenzene	20.2	0.250	0.500	ug/L	1	20.0		101	80-120%			
1,3-Dichlorobenzene	20.6	0.250	0.500	ug/L	1	20.0		103	80-120%			
1,4-Dichlorobenzene	20.1	0.250	0.500	ug/L	1	20.0		100	80-120%			
Dichlorodifluoromethane	23.7	0.500	1.00	ug/L	1	20.0		118	80-120%			
1,1-Dichloroethane	21.2	0.200	0.400	ug/L	1	20.0		106	80-120%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0069 - EPA 5030B							Wa	ter				
LCS (22F0069-BS1)			Prepared	: 06/02/22	08:00 Ana	yzed: 06/02/	/22 10:26					
1,2-Dichloroethane (EDC)	21.0	0.200	0.400	ug/L	1	20.0		105	80-120%			
1,1-Dichloroethene	32.2	0.200	0.400	ug/L	1	20.0		161	80-120%			Q-56
cis-1,2-Dichloroethene	20.4	0.200	0.400	ug/L	1	20.0		102	80-120%			
trans-1,2-Dichloroethene	21.0	0.200	0.400	ug/L	1	20.0		105	80-120%			
1,2-Dichloropropane	20.3	0.250	0.500	ug/L	1	20.0		102	80-120%			
1,3-Dichloropropane	20.6	0.500	1.00	ug/L	1	20.0		103	80-120%			
2,2-Dichloropropane	23.0	0.500	1.00	ug/L	1	20.0		115	80-120%			
1,1-Dichloropropene	22.2	0.500	1.00	ug/L	1	20.0		111	80-120%			
cis-1,3-Dichloropropene	22.0	0.500	1.00	ug/L	1	20.0		110	80-120%			
trans-1,3-Dichloropropene	24.4	0.500	1.00	ug/L	1	20.0		122	80-120%			Q-56
Ethylbenzene	21.4	0.250	0.500	ug/L	1	20.0		107	80-120%			
Hexachlorobutadiene	26.0	2.50	5.00	ug/L	1	20.0		130	80-120%			Q-56
2-Hexanone	44.8	5.00	10.0	ug/L	1	40.0		112	80-120%			
Isopropylbenzene	22.1	0.500	1.00	ug/L	1	20.0		110	80-120%			
4-Isopropyltoluene	22.1	0.500	1.00	ug/L	1	20.0		110	80-120%			
Methylene chloride	20.6	5.00	10.0	ug/L	1	20.0		103	80-120%			
4-Methyl-2-pentanone (MiBK)	44.9	5.00	10.0	ug/L	1	40.0		112	80-120%			
Methyl tert-butyl ether (MTBE)	18.7	0.500	1.00	ug/L	1	20.0		94	80-120%			
Naphthalene	18.0	1.00	2.00	ug/L	1	20.0		90	80-120%			
n-Propylbenzene	21.5	0.250	0.500	ug/L	1	20.0		108	80-120%			
Styrene	22.1	0.500	1.00	ug/L	1	20.0		110	80-120%			
1,1,1,2-Tetrachloroethane	21.6	0.200	0.400	ug/L	1	20.0		108	80-120%			
1,1,2,2-Tetrachloroethane	20.3	0.250	0.500	ug/L	1	20.0		102	80-120%			
Tetrachloroethene (PCE)	21.0	0.200	0.400	ug/L	1	20.0		105	80-120%			
Toluene	19.8	0.500	1.00	ug/L	1	20.0		99	80-120%			
1,2,3-Trichlorobenzene	21.6	1.00	2.00	ug/L	1	20.0		108	80-120%			
1,2,4-Trichlorobenzene	22.0	1.00	2.00	ug/L	1	20.0		110	80-120%			
1,1,1-Trichloroethane	21.4	0.200	0.400	ug/L	1	20.0		107	80-120%			
1,1,2-Trichloroethane	20.1	0.250	0.500	ug/L	1	20.0		101	80-120%			
Trichloroethene (TCE)	19.6	0.200	0.400	ug/L	1	20.0		98	80-120%			
Trichlorofluoromethane	31.1	1.00	2.00	ug/L	1	20.0		155	80-120%			Q-56
1,2,3-Trichloropropane	19.8	0.500	1.00	ug/L	1	20.0		99	80-120%			
1,2,4-Trimethylbenzene	22.2	0.500	1.00	ug/L	1	20.0		111	80-120%			
1,3,5-Trimethylbenzene	21.1	0.500	1.00	ug/L	1	20.0		105	80-120%			

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0069 - EPA 5030B							Wa	ter				
LCS (22F0069-BS1)			Prepared	l: 06/02/22	08:00 Anal	lyzed: 06/02/	/22 10:26					
Vinyl chloride	22.8	0.200	0.400	ug/L	1	20.0		114	80-120%			
m,p-Xylene	43.7	0.500	1.00	ug/L	1	40.0		109	80-120%			
o-Xylene	20.4	0.250	0.500	ug/L	1	20.0		102	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 98 %	Limits: 80	0-120 %	Dilı	tion: 1x					
Toluene-d8 (Surr)			99 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			92 %	80)-120 %		"					
Duplicate (22F0069-DUP1)			Prepared	1: 06/02/22	11:06 Anal	yzed: 06/02/	/22 12:47					
OC Source Sample: SW-1(052822)	(A2F0009-	01)										
EPA 8260D												
Acetone	ND	20.0	20.0	ug/L	1		ND				30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1		ND				30%	
Benzene	ND	0.100	0.200	ug/L	1		ND				30%	
Bromobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromoform	ND	0.500	1.00	ug/L	1		ND				30%	
Bromomethane	ND	5.00	5.00	ug/L	1		ND				30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1		ND				30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
tert-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1		ND				30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1		ND				30%	
Chlorobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Chloroethane	ND	25.0	25.0	ug/L	1		ND				30%	
Chloroform	ND	0.500	1.00	ug/L	1		ND				30%	
Chloromethane	ND	2.50	5.00	ug/L	1		ND				30%	
2-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
4-Chlorotoluene	ND	0.500	1.00	ug/L	1		ND				30%	
Dibromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2-Dibromo-3-chloropropane	ND	2.50	5.00	ug/L	1		ND				30%	
1,2-Dibromoethane (EDB)	ND	0.250	0.500	ug/L	1		ND				30%	
Dibromomethane	ND	0.500	1.00	ug/L	1		ND				30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source % REC Analyte Result Units Dilution RPD Limit Limit Amount Result Limits Limit Notes Batch 22F0069 - EPA 5030B Water Duplicate (22F0069-DUP1) Prepared: 06/02/22 11:06 Analyzed: 06/02/22 12:47 QC Source Sample: SW-1(052822) (A2F0009-01) 1,2-Dichlorobenzene ND 0.250 0.500 ug/L 1 ND 30% ND 0.250 0.500 1,3-Dichlorobenzene ug/L 1 ND 30% 1,4-Dichlorobenzene ND 0.250 0.500 ug/L 1 ND 30% Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 ND 30% 1,1-Dichloroethane ND 0.200 0.400 1 ND 30% ug/L ------1,2-Dichloroethane (EDC) ND 0.200 0.400 ug/L 1 ND 30% 1,1-Dichloroethene ND 0.200 0.400ug/L 1 ND 30% 0.400 ND 30% cis-1,2-Dichloroethene ND 0.200 ug/L 1 trans-1,2-Dichloroethene ND 0.200 0.400 ug/L 1 ND 30% 1,2-Dichloropropane ND 0.250 0.500 ug/L 1 ND 30% 1,3-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 30% 2,2-Dichloropropane ug/L 1 ND 1,1-Dichloropropene ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 30% cis-1,3-Dichloropropene ug/L 1 ND 0.500 ug/L trans-1,3-Dichloropropene ND 1.00 1 ND 30% Ethylbenzene ND 0.250 0.500 ug/L 1 ND ___ 30% Hexachlorobutadiene ND 2.50 5.00 ug/L 1 ND 30% ND 30% 2-Hexanone 5.00 10.0 1 ND ug/L Isopropylbenzene ND 0.500 1.00 ug/L 1 ND 30% 0.500 1.00 ND ND 30% 4-Isopropyltoluene ug/L 1 ND Methylene chloride 5.00 10.0 ug/L 1 ND 30% 4-Methyl-2-pentanone (MiBK) ND 5.00 10.0 ug/L 1 ND ---30% Methyl tert-butyl ether (MTBE) ND 0.500 1.00 ug/L 1 ND 30% Naphthalene ND ND 30% 1.00 2.00 ug/L 1 ND 0.250 0.500 30% n-Propylbenzene ug/L 1 ND ND 0.500 1.00 ND 30% Styrene ug/L 1 1,1,1,2-Tetrachloroethane ND 0.200 0.400 ND 30% ug/L 1 ND 1,1,2,2-Tetrachloroethane 0.250 0.500 ug/L 1 ND ---30% Tetrachloroethene (PCE) ND 0.200 0.400 ug/L 1 ND 30% Toluene ND 0.500 1.00 ND 30% ug/L 1 ---1,2,3-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 30% 1.00 2.00 1,2,4-Trichlorobenzene ND 1 ND 30% ug/L ---1,1,1-Trichloroethane ND 0.200 0.400 ug/L 1 ND 30%

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 28 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

		,	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0069 - EPA 5030B							Wat	er				
Duplicate (22F0069-DUP1)			Prepared	: 06/02/22	11:06 Anal	yzed: 06/02/	/22 12:47					
QC Source Sample: SW-1(052822)	(A2F0009-	<u>·01)</u>										
1,1,2-Trichloroethane	ND	0.250	0.500	ug/L	1		ND				30%	
Trichloroethene (TCE)	ND	0.200	0.400	ug/L	1		ND				30%	
Trichlorofluoromethane	ND	1.00	2.00	ug/L	1		ND				30%	
1,2,3-Trichloropropane	ND	0.500	1.00	ug/L	1		ND				30%	
1,2,4-Trimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
1,3,5-Trimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
Vinyl chloride	ND	0.200	0.400	ug/L	1		ND				30%	
n,p-Xylene	ND	0.500	1.00	ug/L	1		ND				30%	
o-Xylene	ND	0.250	0.500	ug/L	1		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 103 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			100 %	80	-120 %		"					
Duplicate (22F0069-DUP2) QC Source Sample: Non-SDG (A2	2F0052-05)		Терагео	. 00/02/22	11.00 Allai	yzed: 06/02/	722 10.40					
Acetone	ND	20.0	20.0	ug/L	1		ND				30%	
Acrylonitrile	ND	1.00	2.00	ug/L	1		ND				30%	
Benzene	ND	0.100	0.200	ug/L	1		ND				30%	
Bromobenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Bromochloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromodichloromethane	ND	0.500	1.00	ug/L	1		ND				30%	
Bromoform	ND	0.500	1.00	ug/L	1		ND				30%	
Bromomethane	ND	5.00	5.00	ug/L	1		ND				30%	
2-Butanone (MEK)	ND	5.00	10.0	ug/L	1		ND				30%	
n-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
sec-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
ert-Butylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
Carbon disulfide	ND	5.00	10.0	ug/L	1		ND				30%	
Carbon tetrachloride	ND	0.500	1.00	ug/L	1		ND				30%	
	ND	0.250	0.500	ug/L	1		ND				30%	
Chlorobenzene	ND											
	ND	25.0	25.0	ug/L	1		ND				30%	
Chlorobenzene Chloroethane Chloroform			25.0 1.00	ug/L ug/L	1 1		ND 2.45			0.4	30% 30%	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source % REC Analyte Result Limit Units Dilution RPD Limit Amount Result Limits Limit Notes Batch 22F0069 - EPA 5030B Water Duplicate (22F0069-DUP2) Prepared: 06/02/22 11:06 Analyzed: 06/02/22 18:40 QC Source Sample: Non-SDG (A2F0052-05) 2-Chlorotoluene ND 0.500 1.00 ug/L 1 ND 30% ND 0.500 1.00 4-Chlorotoluene ug/L 1 ND 30% Dibromochloromethane ND 0.500 1.00 ug/L 1 ND 30% 1,2-Dibromo-3-chloropropane ND 2.50 5.00 ug/L 1 ND 30% 1,2-Dibromoethane (EDB) ND 0.250 0.500 1 ND 30% ug/L ------ND 0.500 Dibromomethane 1.00 ug/L 1 ND 30% 1,2-Dichlorobenzene ND 0.250 0.500 ug/L 1 ND 30% 0.950 30% 1,3-Dichlorobenzene 0.920 0.250 0.500 ug/L 1 3 1,4-Dichlorobenzene ND 0.250 0.500 ug/L 1 ND 30% Dichlorodifluoromethane ND 0.500 1.00 ug/L 1 ND 30% 1,1-Dichloroethane ND 0.200 0.400 ug/L 1 ND 30% 1,2-Dichloroethane (EDC) ND 0.200 0.400ND 30% ug/L 1 1,1-Dichloroethene ND 0.200 0.400 ug/L 1 ND 30% ND 0.200 0.400 ND 30% cis-1,2-Dichloroethene ug/L 1 0.200 trans-1,2-Dichloroethene ND 0.400 ug/L 1 ND 30% 1,2-Dichloropropane ND 0.250 0.500 ug/L 1 ND ___ 30% 1,3-Dichloropropane ND 0.500 1.00 ug/L 1 ND 30% ND ND 30% 2,2-Dichloropropane 0.500 1.00 1 ug/L ND ND 1,1-Dichloropropene 0.500 1.00 ug/L 1 30% 0.500 1.00 cis-1,3-Dichloropropene ND ND 30% ug/L 1 trans-1,3-Dichloropropene ND 0.500 ND 1.00 ug/L 1 30% 0.250 Ethylbenzene ND 0.500 ug/L 1 ND ---30% Hexachlorobutadiene ND 2.50 5.00 ug/L 1 ND 30% ND ND 30% 2-Hexanone 5.00 10.0 ug/L 1 ND 0.500 1.00 ND 30% Isopropylbenzene ug/L 1 ND 0.500 1.00 ND 30% 4-Isopropyltoluene ug/L 1 Methylene chloride ND 5.00 10.0 ND 30% ug/L 1 4-Methyl-2-pentanone (MiBK) ND 5.00 10.0 ug/L 1 ND ---30% Methyl tert-butyl ether (MTBE) ND 0.500 1.00 ug/L 1 ND 30% Naphthalene ND 1.00 2.00 ND 30% ug/L 1 n-Propylbenzene ND 0.250 0.500 ug/L 1 ND 30% Styrene 0.500 1.00 ND 1 ND 30% ug/L ---1,1,1,2-Tetrachloroethane ND 0.200 0.400 ug/L 1 ND 30%

Apex Laboratories

Philip Merenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 30 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number:[none]Report ID:Wilsonville, OR 97070Project Manager:Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte Result Detection Limit Units Dilution Spike Amount Source Result Material Manual Manua			,	Volatile Or	ganic Co	mpounds	by EPA 8	3260D					
Duplicate (22F0069-DUP2)	yte	Result			Units	Dilution			% REC	% REC Limits	RPD	RPD Limit	Notes
OC Source Sample: Non-SDG (A2F0052-05) 1,1,2,2-Tetrachloroethane ND 0.250 0.500 ug/L 1 ND Tetrachloroethene (PCE) ND 0.200 0.400 ug/L 1 ND Toluene ND 0.500 1.00 ug/L 1 ND Toluene ND 1.00 2.00 ug/L 1 ND 1,2,3-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 1,2,4-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 1,2,4-Trichloroethane ND 0.200 0.400 ug/L 1 ND 1,1,1-Trichloroethane ND 0.250 0.500 ug/L 1 ND 1,1,2-Trichloroethane ND 0.250 0.500 ug/L 1 ND 1,1,2-Trichloroethane ND 0.200 0.400 ug/L 1 ND 1,1,2-Trichloroethane ND 0.200 0.400 ug/L 1 ND 1,1,2-Trichloroethane ND 0.200 0.400 ug/L 1 ND 1,1,2-Trichloroptomethane ND 0.500 1.00 ug/L 1 ND 1,2,3-Trichloroptopane ND 0.500 1.00 ug/L 1 ND 1,2,3-Trichloroptopane ND 0.500 1.00 ug/L 1 ND 1,2,4-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,4-Trimethylbenzene ND 0.500 0	22F0069 - EPA 5030B							Wa	ter				
1,1,2,2-Tetrachloroethane	ate (22F0069-DUP2)			Prepared	1: 06/02/22	11:06 Ana	lyzed: 06/02	/22 18:40					
Tetrachloroethene (PCE) ND 0.200 0.400 ug/L 1 ND Toluene ND 0.500 1.00 ug/L 1 ND 1,2,3-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 1,2,4-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 1,2,4-Trichloroethane ND 0.200 0.400 ug/L 1 ND 1,1,1-Trichloroethane ND 0.250 0.500 ug/L 1 ND 1,1,1-Trichloroethane ND 0.250 0.500 ug/L 1 ND Trichloroethane ND 0.200 0.400 ug/L 1 ND Trichloroethane ND 0.200 0.400 ug/L 1 ND Trichlorofluoromethane ND 1.00 2.00 ug/L 1 ND Trichlorofluoromethane ND 1.00 2.00 ug/L 1 ND Trichlorofluoromethane ND 0.500 1.00 ug/L 1 ND 1,2,3-Trichloropropane ND 0.500 1.00 ug/L 1 ND 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND Winyl chloride ND 0.500 1.00 ug/L 1 ND Winyl chloride ND 0.200 0.400 ug/L 1 ND Surr: I,4-Diffuorobenzene (Surr) Recovery: I05% Limits: 80-120% Difution: Ix Toluene-d8 (Surr)	ource Sample: Non-SDG (A2I	F0052-05)											
Toluene	-Tetrachloroethane	ND	0.250	0.500	ug/L	1		ND				30%	
1,2,3-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 1,2,4-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 1,1,1-Trichloroethane ND 0.200 0.400 ug/L 1 ND 1,1,1-Trichloroethane ND 0.250 0.500 ug/L 1 ND 1,1,1-Trichloroethane ND 0.250 0.500 ug/L 1 ND 1,1,1-Trichloroethane ND 0.200 0.400 ug/L 1 ND 1,1,1-Trichloroethane ND 0.500 1.00 ug/L 1 ND 1,1,1-Trichloroethane ND 0.500 1.00 ug/L 1 ND 1,1,1-Trichloroethane ND 0.200 0.400 ug/L 1 ND 1,1,1-Trichloroethane ND 0.500 1.00 ug/L 1 1 ND 1,1,1-Trichloroethane ND 0.500 1.00 ug/L 1 2.00 ND 104 1,1-Trichloroethane 1.00 0.500 1.00 ug/L 1 2.00 ND 104 1,1-Trichloroethane 1.00 0.500 1.00 ug/L 1 2.00 ND 104 1,1-Trichloroethane 1.00 0.500 1.00 ug/L 1 2.00 ND 104 1,1-Trichloroethane 1.00 0.500 1.00 ug/L 1 2.00 ND 115 1,1-Trichloroethane 1.00 0.500 1.00 ug/L 1 2.00 ND 115 1,1-Trichloroethane 1.00 1.00 ug/L 1 2.00 ND 115 1,1-Trichloroethane 1.00 1.0	loroethene (PCE)	ND	0.200	0.400	ug/L	1		ND				30%	
1,2,4-Trichlorobenzene ND 1.00 2.00 ug/L 1 ND 1,1,1-Trichloroethane ND 0.200 0.400 ug/L 1 ND 1,1,2-Trichloroethane ND 0.250 0.500 ug/L 1 ND 1,1,2-Trichloroethane ND 0.200 0.400 ug/L 1 ND 1,2,2-Trichlorofthane ND 1.00 2.00 ug/L 1 ND 1,2,3-Trichloroptopane ND 0.500 1.00 ug/L 1 ND 1,2,3-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,2,3-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,2,4-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,2,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,2,4-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,2,4-Trichlorophylbenzene ND 0.500 1.00 ug/L 1 ND 1,2,4-Trichlorophylbenzene ND 0.500 1.00 ug/L 1 2.00 ND 126 1,2,4-Trichlorophylbenzene ND 0.500 1.00 ug/L 1 2.00 ND 104 1,2,4-Trichlorophylbenzene ND 0.500 1.00 ug/L 1 2.00 ND 104 1,2,4-Trimethylbenzene ND 0.500 1.00 ug/L 1 2.00 ND 104 1,2,4-Trimethylbenzene ND 0.500 1.00 ug/L 1 2.00 ND 104 1,2,4-Trimethylbenzene ND 0.500 1.00 ug/L 1 2.00 ND 104	e	ND	0.500	1.00	ug/L	1		ND				30%	
1,1,1-Trichloroethane	richlorobenzene	ND	1.00	2.00	ug/L	1		ND				30%	
1,1,2-Trichloroethane	richlorobenzene	ND	1.00	2.00	ug/L	1		ND				30%	
Trichloroethene (TCE) ND 0.200 0.400 ug/L 1 ND	richloroethane	ND	0.200	0.400	ug/L	1		ND				30%	
Trichlorofluoromethane ND 1.00 2.00 ug/L 1 ND 1,2,3-Trichloropropane ND 0.500 1.00 ug/L 1 ND 1,2,4-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,2,4-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 4.00 ND 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 20.0 ND 104 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 20.0 ND 104 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 20.0 ND 104 1,4-Diffuorobenzene (Surr)	richloroethane	ND	0.250	0.500	ug/L	1		ND				30%	
1,2,3-Trichloropropane	roethene (TCE)	ND	0.200	0.400	ug/L	1		ND				30%	
1,2,4-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND 1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND ND ND 0.200 0.400 ug/L 1 ND ND ND 0.500 1.00 ug/L 1 ND ND ND 0.250 0.500 ug/L 1 ND ND ND ND ND ND ND ND ND ND ND	rofluoromethane	ND	1.00	2.00	ug/L	1		ND				30%	
1,3,5-Trimethylbenzene ND 0.500 1.00 ug/L 1 ND	richloropropane	ND	0.500	1.00	ug/L	1		ND				30%	
Vinyl chloride	rimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
ND	rimethylbenzene	ND	0.500	1.00	ug/L	1		ND				30%	
O-Xylene ND 0.250 0.500 ug/L 1 ND Surr: 1,4-Difluorobenzene (Surr) Recovery: 105 % Limits: 80-120 % Dilution: 1x Toluene-d8 (Surr) 98 % 80-120 % " Matrix Spike (22F0069-MS1) Prepared: 06/02/22 11:06 Analyzed: 06/02/22 13:41 OC Source Sample: SW-2(052822) (A2F0009-02) EPA 8260D Acetone 50.5 10.0 20.0 ug/L 1 40.0 ND 126 Acrylonitrile 20.9 1.00 2.00 ug/L 1 20.0 ND 104 Benzene 20.7 0.100 0.200 ug/L 1 20.0 ND 104 Benzene 18.3 0.250 0.500 ug/L 1 20.0 ND 104 Bromobenzene 18.3 0.250 0.500 ug/L 1 20.0 ND 105 Bromochloromethane 23.0 0.500 1.00 ug/L 1 20.0 ND 115 Bromodichloromethane 22.5 0.500 1.00 ug/L 1 20.0 ND 112 Bromodichloromethane 19.6 0.500 1.00 ug/L 1 20.0 ND 112 Bromoform 19.6 0.500 1.00 ug/L 1 20.0 ND 98	hloride	ND	0.200	0.400	ug/L	1		ND				30%	
Recovery: 1.4-Difluorobenzene (Surr) Recovery: 105 % Limits: 80-120 % Dilution: 1x	lene	ND	0.500	1.00	ug/L	1		ND				30%	
Toluene-d8 (Surr)	ne	ND	0.250	0.500	ug/L	1		ND				30%	
Toluene-d8 (Surr)	,4-Difluorobenzene (Surr)		Recov	very: 105 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Matrix Spike (22F0069-MS1) Prepared: 06/02/22 11:06 Analyzed: 06/02/22 13:41					80	0-120 %		"					
QC Source Sample: SW-2(052822) (A2F0009-02) EPA 8260D Acetone 50.5 10.0 20.0 ug/L 1 40.0 ND 126 Acrylonitrile 20.9 1.00 2.00 ug/L 1 20.0 ND 104 Benzene 20.7 0.100 0.200 ug/L 1 20.0 ND 104 Bromobenzene 18.3 0.250 0.500 ug/L 1 20.0 ND 92 Bromochloromethane 23.0 0.500 1.00 ug/L 1 20.0 ND 115 Bromodichloromethane 22.5 0.500 1.00 ug/L 1 20.0 ND 112 Bromoform 19.6 0.500 1.00 ug/L 1 20.0 ND 98	-Bromofluorobenzene (Surr)			98 %	80	0-120 %		"					
EPA 8260D Acctone 50.5 10.0 20.0 ug/L 1 40.0 ND 126 Acrylonitrile 20.9 1.00 2.00 ug/L 1 20.0 ND 104 Benzene 20.7 0.100 0.200 ug/L 1 20.0 ND 104 Bromobenzene 18.3 0.250 0.500 ug/L 1 20.0 ND 92 Bromochloromethane 23.0 0.500 1.00 ug/L 1 20.0 ND 115 Bromoform 19.6 0.500 1.00 ug/L 1 20.0 ND 98	x Spike (22F0069-MS1)			Prepared	l: 06/02/22	11:06 Ana	lyzed: 06/02/	/22 13:41					
Acetone 50.5 10.0 20.0 ug/L 1 40.0 ND 126 Acrylonitrile 20.9 1.00 2.00 ug/L 1 20.0 ND 104 Benzene 20.7 0.100 0.200 ug/L 1 20.0 ND 104 Bromobenzene 18.3 0.250 0.500 ug/L 1 20.0 ND 92 Bromochloromethane 23.0 0.500 1.00 ug/L 1 20.0 ND 115 Bromodichloromethane 22.5 0.500 1.00 ug/L 1 20.0 ND 112 Bromoform 19.6 0.500 1.00 ug/L 1 20.0 ND 98	ource Sample: SW-2(052822)	(A2F0009-	-02)										
Acrylonitrile 20.9 1.00 2.00 ug/L 1 20.0 ND 104 Benzene 20.7 0.100 0.200 ug/L 1 20.0 ND 104 Bromobenzene 18.3 0.250 0.500 ug/L 1 20.0 ND 92 Bromochloromethane 23.0 0.500 1.00 ug/L 1 20.0 ND 115 Bromoform 19.6 0.500 1.00 ug/L 1 20.0 ND 98	260D												
Benzene 20.7 0.100 0.200 ug/L 1 20.0 ND 104 Bromobenzene 18.3 0.250 0.500 ug/L 1 20.0 ND 92 Bromochloromethane 23.0 0.500 1.00 ug/L 1 20.0 ND 115 Bromodichloromethane 22.5 0.500 1.00 ug/L 1 20.0 ND 112 Bromoform 19.6 0.500 1.00 ug/L 1 20.0 ND 98	e	50.5	10.0	20.0	ug/L	1	40.0	ND	126	39-160%			Q-5
Bromobenzene 18.3 0.250 0.500 ug/L 1 20.0 ND 92 Bromochloromethane 23.0 0.500 1.00 ug/L 1 20.0 ND 115 Bromodichloromethane 22.5 0.500 1.00 ug/L 1 20.0 ND 112 Bromoform 19.6 0.500 1.00 ug/L 1 20.0 ND 98	nitrile	20.9	1.00	2.00	ug/L	1	20.0	ND	104	63-135%			
Bromochloromethane 23.0 0.500 1.00 ug/L 1 20.0 ND 115 Bromodichloromethane 22.5 0.500 1.00 ug/L 1 20.0 ND 112 Bromoform 19.6 0.500 1.00 ug/L 1 20.0 ND 98	e	20.7	0.100	0.200	ug/L	1	20.0	ND	104	79-120%			
Bromochloromethane 23.0 0.500 1.00 ug/L 1 20.0 ND 115 Bromodichloromethane 22.5 0.500 1.00 ug/L 1 20.0 ND 112 Bromoform 19.6 0.500 1.00 ug/L 1 20.0 ND 98	benzene	18.3	0.250	0.500	ug/L	1	20.0	ND	92	80-120%			
Bromodichloromethane 22.5 0.500 1.00 ug/L 1 20.0 ND 112 Bromoform 19.6 0.500 1.00 ug/L 1 20.0 ND 98	chloromethane	23.0	0.500	1.00	-	1	20.0	ND	115	78-123%			
	dichloromethane	22.5	0.500	1.00	_	1	20.0	ND	112	79-125%			
	form	19.6	0.500	1.00	ug/L	1	20.0	ND	98	66-130%			
· · · · · · · · · · · · · · · · · · ·	methane	19.3	5.00	5.00	_	1	20.0	ND	96	53-141%			Q-
2-Butanone (MEK) 44.4 5.00 10.0 ug/L 1 40.0 ND 111	none (MEK)	44.4	5.00	10.0	_	1	40.0	ND	111	56-143%			Q-:

Apex Laboratories

Philip Nevenberg

22.8

22.9

0.500

0.500

1.00

1.00

ug/L

ug/L

n-Butylbenzene

sec-Butylbenzene

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

114

114

75-128%

77-126%

Philip Nerenberg, Lab Director

1

1

20.0

20.0

ND

ND



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D % REC RPD Detection Reporting Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 22F0069 - EPA 5030B Water Matrix Spike (22F0069-MS1) Prepared: 06/02/22 11:06 Analyzed: 06/02/22 13:41 QC Source Sample: SW-2(052822) (A2F0009-02) tert-Butylbenzene 0.500 1.00 ug/L 1 20.0 ND 105 78-124% 10.0 20.0 Q-54f Carbon disulfide 28.1 5.00 ug/L 1 ND 140 64-133% ug/L Carbon tetrachloride 24.8 0.500 1.00 1 20.0 ND 124 72-136% Chlorobenzene 20.6 0.250 0.500 ug/L 1 20.0 ND 103 80-120% Chloroethane 39.5 25.0 25.0 1 20.0 ND 197 60-138% Q-54b, EST ug/L ---1.00 20.0 ND Chloroform 21.8 0.500 ug/L 1 109 79-124% ug/L Q-54e Chloromethane 30.8 2.50 5.00 1 20.0 ND 154 50-139% 20.0 99 79-122% 2-Chlorotoluene 19.8 0.500 1.00 ug/L 1 ND 4-Chlorotoluene 20.4 0.500 1.00 ug/L 1 20.0 ND 102 78-122% Dibromochloromethane 22.6 0.500 1.00 ug/L 1 20.0 ND 113 74-126% 1,2-Dibromo-3-chloropropane 19.5 2.50 5.00 ug/L 1 20.0 ND 98 62-128% 1,2-Dibromoethane (EDB) 20.9 0.250 0.500 20.0 ND 104 77-121% ug/L 1 20.0 79-123% Dibromomethane 22.7 0.500 1.00 ug/L 1 ND 113 20.0 80-120% 20.4 0.250 0.500 ND 102 1,2-Dichlorobenzene ug/L 1 ug/L 1,3-Dichlorobenzene 20.3 0.250 0.500 1 20.0 ND 102 80-120% 1.4-Dichlorobenzene 20.0 0.250 0.500 ug/L 1 20.0 ND 100 79-120% ___ Dichlorodifluoromethane 24.6 0.500 1.00 ug/L 1 20.0 ND 123 32-152% 22.0 0.200 20.0 ND 77-125% 1,1-Dichloroethane 0.400110 ug/L 1 21.9 20.0 73-128% 1,2-Dichloroethane (EDC) 0.200 0.400 ug/L 1 ND 110 Q-54h 0.200 0.400 1,1-Dichloroethene 20.0 ND 71-131% 31.0 ug/L 1 155 0.200 0.400 20.0 ND 78-123% cis-1,2-Dichloroethene 21.1 ug/L 1 106 21.7 trans-1,2-Dichloroethene 0.200 0.400 ug/L 1 20.0 ND 109 75-124% 1,2-Dichloropropane 21.0 0.250 0.500 ug/L 1 20.0 ND 105 78-122% 20.9 20.0 ND 105 1,3-Dichloropropane 0.500 1.00 1 80-120% ug/L 22.3 0.500 20.0 ND 60-139% 2,2-Dichloropropane 1.00 ug/L 1 111 20.0 23.3 0.500 1.00 ug/L ND 117 79-125% 1,1-Dichloropropene 1 cis-1,3-Dichloropropene 19.8 0.500 1.00 20.0 ND 99 75-124% ug/L 1 20.0 73-127% Q-54d trans-1,3-Dichloropropene 24.0 0.500 1.00 ug/L 1 ND 120 Ethylbenzene 21.8 0.250 0.500 ug/L 1 20.0 ND 109 79-121% Hexachlorobutadiene 22.5 2.50 5.00 1 20.0 ND 66-134% Q-54 ug/L 113 2-Hexanone 44.5 5.00 10.0 1 40.0 ND 111 57-139% ug/L Isopropylbenzene 0.500 1.00 20.0 22.4 1 ND 112 72-131% ug/L 4-Isopropyltoluene 21.6 0.500 1.00 ug/L 1 20.0 ND 108 77-127%

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 32 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D Detection % REC RPD Reporting Spike Source % REC Analyte Result Limit Units Dilution RPD Limit Amount Result Limits Limit Notes Batch 22F0069 - EPA 5030B Water Matrix Spike (22F0069-MS1) Prepared: 06/02/22 11:06 Analyzed: 06/02/22 13:41 QC Source Sample: SW-2(052822) (A2F0009-02) Methylene chloride 5.00 10.0 ug/L 1 20.0 ND 106 74-124% 5.00 10.0 40.0 4-Methyl-2-pentanone (MiBK) 46.1 ug/L 1 ND 115 67-130% Methyl tert-butyl ether (MTBE) 18.8 0.500 1.00 ug/L 1 20.0 ND 94 71-124% Naphthalene 18.0 1.00 2.00 ug/L 1 20.0 ND 90 61-128% n-Propylbenzene 21.1 0.250 0.500 ug/L 1 20.0 ND 106 76-126% 22.3 0.500 1.00 20.0 Styrene ug/L 1 ND 111 78-123% 1,1,1,2-Tetrachloroethane 22.2 0.200 0.400ug/L 1 20.0 ND 111 78-124% 1,1,2,2-Tetrachloroethane 20.7 0.250 0.500 20.0 ND 104 ug/L 1 71-121% 20.0 Tetrachloroethene (PCE) 21.5 0.200 0.400 ug/L 1 ND 108 74-129% Toluene 20.4 0.500 1.00 ug/L 1 20.0 ND 102 80-121% 1,2,3-Trichlorobenzene 21.4 1.00 2.00 ug/L 1 20.0 ND 107 69-129% 1,2,4-Trichlorobenzene 1.00 2.00 20.0 ND 105 69-130% 21.0 ug/L 1 20.0 1,1,1-Trichloroethane 22.4 0.200 0.400 ug/L 1 ND 112 74-131% 1,1,2-Trichloroethane 20.0 20.6 0.250 0.500 ND 103 ug/L 1 80-120% 0.200 0.400 Trichloroethene (TCE) 20.6 ug/L 1 20.0 ND 103 79-123% Q-54g Trichlorofluoromethane 34.3 1.00 2.00 ug/L 1 20.0 ND 172 65-141% ___ 1,2,3-Trichloropropane 19.7 0.500 1.00 ug/L 1 20.0 ND 99 73-122% 0.500 1.00 20.0 ND 108 1,2,4-Trimethylbenzene 21.6 76-124% ug/L 1 1,3,5-Trimethylbenzene 20.0 ND 75-124% 21.0 0.500 1.00 ug/L 1 105 0.200 0.400 20.0 Vinyl chloride 23.6 ND 58-137% ug/L 1 118 m,p-Xylene 44.8 0.500 1.00 40.0 ND 112 80-121% ug/L 1 0.250 o-Xylene 21.0 0.500 ug/L 1 20.0 ND 105 78-122% Surr: 1,4-Difluorobenzene (Surr) 99 % lχ Recovery: Limits: 80-120 % Dilution: Toluene-d8 (Surr) 96 % 80-120 % 4-Bromofluorobenzene (Surr) 90 % 80-120 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 33 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

		Vo	latile Orga	ilic Com	bounds b	y EPA 820	אוופ חמפ					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0143 - EPA 5030B							Wa	ter				
Blank (22F0143-BLK1)			Prepared	: 06/03/22	12:00 Ana	lyzed: 06/03	3/22 16:06					
EPA 8260D SIM												
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1							
Trichloroethene (TCE)	ND	0.0100	0.0200	ug/L	1							
Vinyl chloride	ND	0.0100	0.0200	ug/L	1							
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 100 %	Limits: 80)-120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			99 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			101 %	80	-120 %		"					
LCS (22F0143-BS1)			Prepared	: 06/03/22	12:00 Ana	lyzed: 06/03	3/22 15:10					
EPA 8260D SIM												
Tetrachloroethene (PCE)	0.201	0.0100	0.0200	ug/L	1	0.200		101	80-120%			
Trichloroethene (TCE)	0.206	0.0100	0.0200	ug/L	1	0.200		103	80-120%			
Vinyl chloride	0.217	0.0100	0.0200	ug/L	1	0.200		108	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 97 %	Limits: 80	0-120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			98 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			99 %	80	-120 %		"					
Duplicate (22F0143-DUP1)			Prepared	: 06/03/22	13:30 Anal	yzed: 06/03	3/22 18:21					
QC Source Sample: Non-SDG (A2)	E0879-02)											
Tetrachloroethene (PCE)	ND	0.0100	0.0200	ug/L	1		ND				30%	
Trichloroethene (TCE)	0.0427	0.0100	0.0200	ug/L	1		0.0380			12	30%	
Vinyl chloride	0.779	0.0100	0.0200	ug/L	1		0.684			13	30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 97%	Limits: 80)-120 %	Dil	ution: 1x					_
Toluene-d8 (Surr)			97 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			92 %	80	-120 %		"					
Matrix Spike (22F0143-MS1)			Prepared	: 06/03/22	13:30 Ana	yzed: 06/03	3/22 18:47					
OC Source Sample: Non-SDG (A2 EPA 8260D SIM	E0879-02)											
Tetrachloroethene (PCE)	0.179	0.0100	0.0200	ug/L	1	0.200	ND	90	74-129%			
Trichloroethene (TCE)	0.216	0.0100	0.0200	ug/L	1	0.200	0.0380	89	79-123%			
Vinyl chloride	0.880	0.0100	0.0200	ug/L	1	0.200	0.684	98	58-137%			
Surr: 1,4-Difluorobenzene (Surr)			ery: 100 %	Limits: 80								

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nevenberg



4-Bromofluorobenzene (Surr)

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number:[none]Report ID:Wilsonville, OR 97070Project Manager:Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Volatile Organic Compounds by EPA 8260D SIM Detection Reporting Spike Source % REC **RPD** % REC Analyte Result Ĺimit Units Dilution Amount Result Limits RPD Limit Limit Notes Batch 22F0143 - EPA 5030B Water Matrix Spike (22F0143-MS1) Prepared: 06/03/22 13:30 Analyzed: 06/03/22 18:47 QC Source Sample: Non-SDG (A2E0879-02) Surr: Toluene-d8 (Surr) Recovery: 97 % Limits: 80-120 % Dilution: 1x

80-120 %

93 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

Recovery: 59 %

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

	Polychlorinated Biphenyls by EPA 8082A											
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0177 - EPA 3510C	(Neutral pH)					Wa	ter				
Blank (22F0177-BLK1)			Prepared	: 06/06/22	10:19 Anal	lyzed: 06/07	/22 17:51					C-07
EPA 8082A												
Aroclor 1016	ND	0.00909	0.0182	ug/L	1							
Aroclor 1221	ND	0.00909	0.0182	ug/L	1							
Aroclor 1232	ND	0.00909	0.0182	ug/L	1							
Aroclor 1242	ND	0.00909	0.0182	ug/L	1							
Aroclor 1248	ND	0.00909	0.0182	ug/L	1							
Aroclor 1254	ND	0.00909	0.0182	ug/L	1							
Aroclor 1260	ND	0.00909	0.0182	ug/L	1							
Aroclor 1262	ND	0.00909	0.0182	ug/L	1							
Aroclor 1268	ND	0.00909	0.0182	ug/L	1							
Surr: Decachlorobiphenyl (Surr)		Reco	very: 63 %	Limits: 40	0-135 %	Dilt	ution: 1x					
LCS (22F0177-BS1)			Prepared	: 06/06/22	10:19 Anal	lyzed: 06/07	/22 18:09					C-07
EPA 8082A												
Aroclor 1016	0.832	0.0100	0.0200	ug/L	1	1.25		67	46-129%			
Aroclor 1260	0.931	0.0100	0.0200	ug/L	1	1.25		74	45-134%			
Surr: Decachlorobiphenyl (Surr)		Reco	very: 58 %	Limits: 40	0-135 %	Dilı	ution: 1x					
LCS Dup (22F0177-BSD1)	(22F0177-BSD1) Prepared: 06/06/22 10:19 Analyzed: 06/07/22 18:26											
EPA 8082A												
Aroclor 1016	0.870	0.0100	0.0200	ug/L	1	1.25		70	46-129%	4	30%	
Aroclor 1260	0.967	0.0100	0.0200	ug/L	1	1.25		77	45-134%	4	30%	

Limits: 40-135 %

Apex Laboratories

Philip Nevenberg

Surr: Decachlorobiphenyl (Surr)

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Dilution: 1x



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

0.0909

0.0909

0.182

0.0455

0.182

0.182

0.364

0.0909

ug/L

ug/L

ug/L

ug/L

1

1

1

1

ND

ND

ND

ND

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Detection % REC RPD Reporting Spike Source Dilution Analyte Result Limit Units Result % REC RPD Limit Amount Limits Limit Notes Batch 22F0121 - EPA 3510C (Acid/Base Neutral) Water Blank (22F0121-BLK1) Prepared: 06/03/22 05:24 Analyzed: 06/03/22 12:18 EPA 8270E Acenaphthene ND 0.00909 0.0182 ug/L ND 0.00909 0.0182 ug/L 1 Acenaphthylene Anthracene ND 0.00909 0.0182 ug/L 1 ND 0.00909 0.01821 Benz(a)anthracene ug/L ND 0.0136 0.0273 ug/L 1 Benzo(a)pyrene 0.0136 ND 0.0273 ug/L Benzo(b)fluoranthene 1 ------Benzo(k)fluoranthene ND 0.0136 0.0273 ug/L 1 0.00909 0.0182 ND Benzo(g,h,i)perylene ug/L 1 Chrysene ND 0.00909 0.0182 ug/L 1 Dibenz(a,h)anthracene ND 0.00909 0.0182 ug/L 1 Fluoranthene 0.0172 0.00909 0.0182 ug/L 1 B-02, J ND 0.00909 0.0182 Fluorene 1 ug/L ---Indeno(1,2,3-cd)pyrene ND 0.00909 0.0182 ug/L 1 ND 0.0182 0.0364 1-Methylnaphthalene ug/L 1 2-Methylnaphthalene ND 0.01820.0364 ug/L 1 Naphthalene ND 0.0182 0.0364 ug/L 1 ------Phenanthrene 0.0175 0.00909 0.0182 ug/L 1 B-02, J B-02, J 0.0150 0.00909 0.0182 Pyrene ug/L 1 ---------Carbazole ND 0.0136 0.0273 ug/L 1 ---Dibenzofuran ND 0.00909 0.0182 ug/L 1 2-Chlorophenol ND 0.04550.0909 ug/L 1 4-Chloro-3-methylphenol ND 0.0909 0.182 ug/L 1 ---0.0455 0.0909 2,4-Dichlorophenol ND ug/L 1 2,4-Dimethylphenol ND 0.0455 0.0909 ug/L 1 0.227 0.455 2,4-Dinitrophenol ND ug/L 1 4,6-Dinitro-2-methylphenol ND 0.227 0.455 ug/L 1 2-Methylphenol ND 0.0227 0.0455 ug/L 1 0.0227 3+4-Methylphenol(s) ND 0.0455 ug/L 1 ------2-Nitrophenol ND 0.0909 0.182ug/L 1

Apex Laboratories

Philip Merenberg

Pentachlorophenol (PCP)

2,3,4,6-Tetrachlorophenol

4-Nitrophenol

Phenol

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 37 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS Semivolatile Organic Compounds by EPA 8270E

Detection Reporting Spike Source % REC **RPD** % REC Amount Analyte Result Ĺimit Units Dilution Result Limits RPD Limit Notes Limit Batch 22F0121 - EPA 3510C (Acid/Base Neutral) Water

Batch 22F0121 - EPA 3510C (/	Acid/Base Ne	eutral)					Wa	iter		
Blank (22F0121-BLK1)			Prepared:	06/03/22 05	:24 Anal	yzed: 06/03	/22 12:18			
2,3,5,6-Tetrachlorophenol	ND	0.0455	0.0909	ug/L	1				 	
2,4,5-Trichlorophenol	ND	0.0455	0.0909	ug/L	1				 	
2,4,6-Trichlorophenol	ND	0.0455	0.0909	ug/L	1				 	
Bis(2-ethylhexyl)phthalate	ND	0.182	0.364	ug/L	1				 	
Butyl benzyl phthalate	ND	0.182	0.364	ug/L	1				 	
Diethylphthalate	ND	0.182	0.364	ug/L	1				 	
Dimethylphthalate	ND	0.182	0.364	ug/L	1				 	
Di-n-butylphthalate	ND	0.182	0.364	ug/L	1				 	
Di-n-octyl phthalate	ND	0.182	0.364	ug/L	1				 	
N-Nitrosodimethylamine	ND	0.0227	0.0455	ug/L	1				 	
N-Nitroso-di-n-propylamine	ND	0.0227	0.0455	ug/L	1				 	
N-Nitrosodiphenylamine	ND	0.0227	0.0455	ug/L	1				 	
Bis(2-Chloroethoxy) methane	ND	0.0227	0.0455	ug/L	1				 	
Bis(2-Chloroethyl) ether	0.0354	0.0227	0.0455	ug/L	1				 	 B-02, J
2,2'-Oxybis(1-Chloropropane)	ND	0.0227	0.0455	ug/L	1				 	
Hexachlorobenzene	ND	0.00909	0.0182	ug/L	1				 	
Hexachlorobutadiene	ND	0.0227	0.0455	ug/L	1				 	
Hexachlorocyclopentadiene	ND	0.0455	0.0909	ug/L	1				 	
Hexachloroethane	ND	0.0227	0.0455	ug/L	1				 	
2-Chloronaphthalene	ND	0.00909	0.0182	ug/L	1				 	
1,2,4-Trichlorobenzene	ND	0.0227	0.0455	ug/L	1				 	
4-Bromophenyl phenyl ether	ND	0.0227	0.0455	ug/L	1				 	
4-Chlorophenyl phenyl ether	ND	0.0227	0.0455	ug/L	1				 	
Aniline	ND	0.0455	0.0909	ug/L	1				 	
4-Chloroaniline	ND	0.0227	0.0455	ug/L	1				 	
2-Nitroaniline	ND	0.182	0.364	ug/L	1				 	
3-Nitroaniline	ND	0.182	0.364	ug/L	1				 	
4-Nitroaniline	ND	0.182	0.364	ug/L	1				 	
Nitrobenzene	ND	0.0909	0.182	ug/L	1				 	
2,4-Dinitrotoluene	ND	0.0909	0.182	ug/L	1				 	
2,6-Dinitrotoluene	ND	0.0909	0.182	ug/L	1				 	
Benzoic acid	ND	1.14	2.27	ug/L	1				 	
Benzyl alcohol	ND	0.0909	0.182	ug/L	1				 	
Isophorone	ND	0.0227	0.0455	ug/L	1				 	

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

		Sei	mivolatile (Organic (Compoun	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0121 - EPA 3510C (Acid/Base	Neutral)					Wa	ter				
Blank (22F0121-BLK1)			Prepared	: 06/03/22	05:24 Anal	yzed: 06/03/	/22 12:18					
Azobenzene (1,2-DPH)	ND	0.0227	0.0455	ug/L	1							
Bis(2-Ethylhexyl) adipate	ND	0.227	0.455	ug/L	1							
3,3'-Dichlorobenzidine	ND	0.455	0.909	ug/L	1							Q-5
1,2-Dinitrobenzene	ND	0.227	0.455	ug/L	1							
1,3-Dinitrobenzene	ND	0.227	0.455	ug/L	1							
1,4-Dinitrobenzene	ND	0.227	0.455	ug/L	1							
Pyridine	ND	0.0909	0.182	ug/L	1							
1,2-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1							
1,3-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1							
1,4-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1							
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 89 %	Limits: 44	4-120 %	Dilu	ıtion: 1x					
2-Fluorobiphenyl (Surr)			81 %	44	1-120 %		"					
Phenol-d6 (Surr)			28 %	10	0-133 %		"					
p-Terphenyl-d14 (Surr)			86 %	50	0-134 %		"					
2-Fluorophenol (Surr)			44 %	19	0-120 %		"					
2,4,6-Tribromophenol (Surr)			79 %	43	3-140 %		"					
LCS (22F0121-BS1)			Prepared	: 06/03/22	05:24 Anal	yzed: 06/03/	/22 12:53					
EPA 8270E												
Acenaphthene	3.26	0.0400	0.0800	ug/L	4	4.00		82	47-122%			
Acenaphthylene	3.44	0.0400	0.0800	ug/L	4	4.00		86	41-130%			
Anthracene	3.69	0.0400	0.0800	ug/L	4	4.00		92	57-123%			
Benz(a)anthracene	3.62	0.0400	0.0800	ug/L	4	4.00		91	58-125%			
Benzo(a)pyrene	3.99	0.0600	0.120	ug/L	4	4.00		100	54-128%			
Benzo(b)fluoranthene	3.82	0.0600	0.120	ug/L	4	4.00		96	53-131%			
Benzo(k)fluoranthene	4.06	0.0600	0.120	ug/L	4	4.00		102	57-129%			
Benzo(g,h,i)perylene	3.80	0.0400	0.0800	ug/L	4	4.00		95	50-134%			
Chrysene	3.62	0.0400	0.0800	ug/L	4	4.00		90	59-123%			
Dibenz(a,h)anthracene	3.63	0.0400	0.0800	ug/L	4	4.00		91	51-134%			
Fluoranthene	3.81	0.0400	0.0800	ug/L	4	4.00		95	57-128%			B-0
Fluorene	3.42	0.0400	0.0800	ug/L	4	4.00		85	52-124%			
Indeno(1,2,3-cd)pyrene	3.40	0.0400	0.0800	ug/L	4	4.00		85	52-134%			
1-Methylnaphthalene	2.96	0.0800	0.160	ug/L	4	4.00		74	41-120%			
2-Methylnaphthalene	2.98	0.0800	0.160	ug/L	4	4.00		75	40-121%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 39 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0121 - EPA 3510C (Acid/Base	Neutral)					Wa	ter				
LCS (22F0121-BS1)			Prepared	: 06/03/22	05:24 Ana	yzed: 06/03	/22 12:53					
Naphthalene	2.95	0.0800	0.160	ug/L	4	4.00		74	40-121%			
Phenanthrene	3.49	0.0400	0.0800	ug/L	4	4.00		87	59-120%			B-02
Pyrene	3.79	0.0400	0.0800	ug/L	4	4.00		95	57-126%			B-02
Carbazole	3.84	0.0600	0.120	ug/L	4	4.00		96	60-122%			
Dibenzofuran	3.47	0.0400	0.0800	ug/L	4	4.00		87	53-120%			
2-Chlorophenol	3.32	0.200	0.400	ug/L	4	4.00		83	38-120%			
4-Chloro-3-methylphenol	3.40	0.400	0.800	ug/L	4	4.00		85	52-120%			
2,4-Dichlorophenol	3.75	0.200	0.400	ug/L	4	4.00		94	47-121%			
2,4-Dimethylphenol	2.99	0.200	0.400	ug/L	4	4.00		75	31-124%			
2,4-Dinitrophenol	2.92	1.00	2.00	ug/L	4	4.00		73	23-143%			
4,6-Dinitro-2-methylphenol	3.91	1.00	2.00	ug/L	4	4.00		98	44-137%			
2-Methylphenol	3.11	0.100	0.200	ug/L	4	4.00		78	30-120%			
3+4-Methylphenol(s)	2.77	0.100	0.200	ug/L	4	4.00		69	29-120%			
2-Nitrophenol	4.36	0.400	0.800	ug/L	4	4.00		109	47-123%			Q-41
4-Nitrophenol	1.14	0.400	0.800	ug/L	4	4.00		28	10-120%			
Pentachlorophenol (PCP)	2.67	0.400	0.800	ug/L	4	4.00		67	35-138%			
Phenol	1.12	0.800	0.800	ug/L	4	4.00		28	10-120%			
2,3,4,6-Tetrachlorophenol	3.42	0.200	0.400	ug/L	4	4.00		85	50-128%			
2,3,5,6-Tetrachlorophenol	3.59	0.200	0.400	ug/L	4	4.00		90	50-121%			
2,4,5-Trichlorophenol	3.66	0.200	0.400	ug/L	4	4.00		91	53-123%			
2,4,6-Trichlorophenol	3.63	0.200	0.400	ug/L	4	4.00		91	50-125%			
Bis(2-ethylhexyl)phthalate	3.61	0.800	1.60	ug/L	4	4.00		90	55-135%			
Butyl benzyl phthalate	3.73	0.800	1.60	ug/L	4	4.00		93	53-134%			
Diethylphthalate	3.67	0.800	1.60	ug/L	4	4.00		92	56-125%			
Dimethylphthalate	3.27	0.800	1.60	ug/L	4	4.00		82	45-127%			
Di-n-butylphthalate	3.95	0.800	1.60	ug/L	4	4.00		99	59-127%			
Di-n-octyl phthalate	3.74	0.800	1.60	ug/L	4	4.00		94	51-140%			
N-Nitrosodimethylamine	1.73	0.100	0.200	ug/L	4	4.00		43	19-120%			
N-Nitroso-di-n-propylamine	3.48	0.100	0.200	ug/L	4	4.00		87	49-120%			
N-Nitrosodiphenylamine	3.81	0.100	0.200	ug/L	4	4.00		95	51-123%			
Bis(2-Chloroethoxy) methane	3.51	0.100	0.200	ug/L	4	4.00		88	48-120%			
Bis(2-Chloroethyl) ether	3.22	0.100	0.200	ug/L	4	4.00		80	43-120%			B-02
2,2'-Oxybis(1-Chloropropane)	3.01	0.100	0.200	ug/L	4	4.00		75	41-120%			
Hexachlorobenzene	3.55	0.0400	0.0800	ug/L	4	4.00		89	53-125%			

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 22F0121 - EPA 3510C (Acid/Base Neutral) Water LCS (22F0121-BS1) Prepared: 06/03/22 05:24 Analyzed: 06/03/22 12:53 2.10 0.100 0.200 4 4.00 52 22-124% Hexachlorobutadiene ug/L Q-41 Hexachlorocyclopentadiene 2.49 0.200 0.400 ug/L 4 4.00 62 10-127% ---------Hexachloroethane 2.09 0.100 0.200 ug/L 4 4.00 52 21-120% 2-Chloronaphthalene 3.46 0.0400 0.0800 ug/L 4 4.00 86 40-120% 1,2,4-Trichlorobenzene 2.50 0.1000.200 4 4.00 63 29-120% ug/L 91 4-Bromophenyl phenyl ether 3.62 0.100 0.200 ug/L 4 4.00 55-124% 4-Chlorophenyl phenyl ether 3.44 0.100 0.200 ug/L 4 4.00 86 53-121% 4 4.00 57 Q-31 Aniline 2.27 0.200 0.400 ug/L 10-120% 0.100 0.200 4-Chloroaniline 2.95 ug/L 4 4.00 74 33-120% 2-Nitroaniline 3.75 0.8001.60 ug/L 4 4.00 94 55-127% 83 3-Nitroaniline 3.34 4 4.00 41-128% 0.800 1.60 ug/L 0.800 4-Nitroaniline 3.50 1.60 ug/L 4 4.00 87 25-120% 0.400 4 4.00 87 45-121% Nitrobenzene 3.46 0.800 ug/L 2,4-Dinitrotoluene 3.59 0.400 0.800 ug/L 4 4.00 90 57-128% 95 2,6-Dinitrotoluene 3.79 0.400 0.800 4 4.00 57-124% ug/L Benzoic acid 3.80 2.00 2.00 ug/L 4 8.00 47 10-120% 0.400 0.800 4 4.00 59 Benzyl alcohol 2.36 31-120% ug/L 3.18 0.100 4 4.00 80 42-124% Isophorone 0.200 ug/L 0.100 0.200 4 4.00 87 61-120% Azobenzene (1,2-DPH) 3.47 ug/L ---Bis(2-Ethylhexyl) adipate 3.73 1.00 2.00 ug/L 4 4.00 93 63-121% 3,3'-Dichlorobenzidine 10.6 2.00 4.00 4 8.00 132 27-129% Q-29, Q-31 ug/L ---1,2-Dinitrobenzene 3.56 1.00 2.00 ug/L 4 4.00 89 59-120% 1,3-Dinitrobenzene 1.00 2.00 ug/L 4 4.00 90 49-128% 3.61 1,4-Dinitrobenzene 3.99 1.00 2.00 4 4.00 100 54-120% ug/L 0.400 4 4.00 Pyridine 1.43 0.800 36 10-120% ug/L ------1,2-Dichlorobenzene 2.45 0.100 0.200 ug/L 4 4.00 61 32-120% 2.17 0.100 0.200 4 4 00 54 28-120% 1.3-Dichlorobenzene ug/L ---1,4-Dichlorobenzene 2.28 0.100 0.200 ug/L 4 4.00 57 29-120% Surr: Nitrobenzene-d5 (Surr) Recovery: 90 % Limits: 44-120 % Dilution: 4x 2-Fluorobiphenyl (Surr) 96% 44-120 % Phenol-d6 (Surr) 28 % 10-133 % p-Terphenyl-d14 (Surr) 102 % 50-134 % 2-Fluorophenol (Surr) 46 % 19-120 % 2,4,6-Tribromophenol (Surr) 97% 43-140 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 41 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Amount Result % REC RPD Limit Limits Limit Notes Batch 22F0121 - EPA 3510C (Acid/Base Neutral) Water LCS Dup (22F0121-BSD1) Prepared: 06/03/22 05:24 Analyzed: 06/03/22 13:27 Q-19 EPA 8270E 0.0400 Acenaphthene 3.27 0.0800ug/L 4 4.00 82 47-122% 0.3 30% Acenaphthylene 3.52 0.0400 0.0800 ug/L 4 4.00 88 41-130% 2 30% 95 30% Anthracene 3.79 0.04000.0800 ug/L 4 4.00 57-123% 3 3.70 0.0400 0.0800 4 4.00 92 58-125% 2 30% Benz(a)anthracene ug/L Benzo(a)pyrene 4.16 0.06000.120 ug/L 4 4.00 104 54-128% 4 30% Benzo(b)fluoranthene 4.07 0.0600 0.120 ug/L 4 4.00 102 53-131% 6 30% 0.0600 Benzo(k)fluoranthene 4.06 0.120 ug/L 4 4.00 101 57-129% 0.1 30% Benzo(g,h,i)perylene 0.0800 ug/L 50-134% 3.84 0.0400 4 4.00 ---96 1 30% 92 2 Chrysene 3.69 0.0400 0.0800 ug/L 4 4.00 59-123% 30% Dibenz(a,h)anthracene 3.72 0.0400 0.0800 4 4.00 93 51-134% 2 30% ug/L B-02 0.0400 98 Fluoranthene 3.93 0.0800 ug/L 4 4.00 57-128% 3 30% Fluorene 3.36 0.04000.0800ug/L 4 4.00 84 52-124% 2 30% 3.43 0.0400 0.0800 4 4.00 52-134% 30% Indeno(1,2,3-cd)pyrene ug/L 86 0.8 ug/L 1-Methylnaphthalene 2.82 0.0800 0.160 4 4.00 70 41-120% 5 30% 2-Methylnaphthalene 0.0800 0.160 4.00 70 40-121% 2.82 ug/L 4 6 30% 4.00 Naphthalene 2.77 0.0800 0.160 ug/L 4 69 40-121% 6 30% B-02 0.0400 Phenanthrene 3.55 0.0800 ug/L 4 4.00 89 59-120% 2 30% Pyrene 3.92 0.04000.0800ug/L 4 4.00 98 57-126% 3 30% B-02 98 Carbazole 3.94 0.0600 0.120 4 4.00 60-122% 3 30% ug/L 0.0400 Dibenzofuran 3.52 0.0800 ug/L 4 4.00 88 53-120% 1 30% 2-Chlorophenol 3.20 0.200 0.400 4 4.00 80 38-120% 4 30% ug/L 0.400 81 52-120% 4-Chloro-3-methylphenol 3.24 0.800ug/L 4 4.00 5 30% 97 0.200 4 4.00 47-121% 3 30% 2,4-Dichlorophenol 3.87 0.400 ug/L 2,4-Dimethylphenol 2.80 0.200 0.400 ug/L 4 4.00 70 31-124% 7 30% 1.00 2.00 4.00 78 7 30% 2,4-Dinitrophenol 3.13 4 23-143% ug/L 4,6-Dinitro-2-methylphenol 4.04 1.00 4 4.00 101 44-137% 3 30% 2.00 ug/L 2-Methylphenol 2.92 0.100 0.200 ug/L 4 4.00 73 30-120% 7 30% 3+4-Methylphenol(s) 2.68 0.100 0.200 4 4.00 67 29-120% 3 30% ug/L Q-41 4.49 0.400 0.800 4 4.00 47-123% 3 30% 2-Nitrophenol ug/L 112 4-Nitrophenol 1.08 0.400 0.800 ug/L 4 4.00 27 10-120% 5 30% Pentachlorophenol (PCP) 2.93 0.400 0.800 4 4.00 73 35-138% 9 30% ug/L 1.35 0.800 0.800 ug/L 4 4.00 34 10-120% 19 30% 3.47 0.200 0.400 ug/L 4 4.00 87 2,3,4,6-Tetrachlorophenol 50-128% 1 30% ---

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 42 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0121 - EPA 3510C (A	Acid/Base	Neutral)					Wa	ter				
LCS Dup (22F0121-BSD1)			Prepared	: 06/03/22	05:24 Anal	lyzed: 06/03/	/22 13:27					Q-19
2,3,5,6-Tetrachlorophenol	3.68	0.200	0.400	ug/L	4	4.00		92	50-121%	2	30%	
2,4,5-Trichlorophenol	3.66	0.200	0.400	ug/L	4	4.00		91	53-123%	0.02	30%	
2,4,6-Trichlorophenol	3.80	0.200	0.400	ug/L	4	4.00		95	50-125%	5	30%	
Bis(2-ethylhexyl)phthalate	3.70	0.800	1.60	ug/L	4	4.00		93	55-135%	3	30%	
Butyl benzyl phthalate	3.91	0.800	1.60	ug/L	4	4.00		98	53-134%	5	30%	
Diethylphthalate	3.72	0.800	1.60	ug/L	4	4.00		93	56-125%	1	30%	
Dimethylphthalate	3.42	0.800	1.60	ug/L	4	4.00		85	45-127%	4	30%	
Di-n-butylphthalate	4.10	0.800	1.60	ug/L	4	4.00		102	59-127%	4	30%	
Di-n-octyl phthalate	3.93	0.800	1.60	ug/L	4	4.00		98	51-140%	5	30%	
N-Nitrosodimethylamine	1.45	0.100	0.200	ug/L	4	4.00		36	19-120%	18	30%	
N-Nitroso-di-n-propylamine	3.35	0.100	0.200	ug/L	4	4.00		84	49-120%	4	30%	
N-Nitrosodiphenylamine	3.93	0.100	0.200	ug/L	4	4.00		98	51-123%	3	30%	
Bis(2-Chloroethoxy) methane	3.78	0.100	0.200	ug/L	4	4.00		95	48-120%	7	30%	
Bis(2-Chloroethyl) ether	3.16	0.100	0.200	ug/L	4	4.00		79	43-120%	2	30%	B-02
2,2'-Oxybis(1-Chloropropane)	2.95	0.100	0.200	ug/L	4	4.00		74	41-120%	2	30%	
Hexachlorobenzene	3.68	0.0400	0.0800	ug/L	4	4.00		92	53-125%	4	30%	
Hexachlorobutadiene	2.07	0.100	0.200	ug/L	4	4.00		52	22-124%	1	30%	
Hexachlorocyclopentadiene	2.61	0.200	0.400	ug/L	4	4.00		65	10-127%	4	30%	Q-41
Hexachloroethane	2.01	0.100	0.200	ug/L	4	4.00		50	21-120%	4	30%	
2-Chloronaphthalene	3.49	0.0400	0.0800	ug/L	4	4.00		87	40-120%	0.8	30%	
1,2,4-Trichlorobenzene	2.48	0.100	0.200	ug/L	4	4.00		62	29-120%	0.7	30%	
4-Bromophenyl phenyl ether	3.73	0.100	0.200	ug/L	4	4.00		93	55-124%	3	30%	
4-Chlorophenyl phenyl ether	3.49	0.100	0.200	ug/L	4	4.00		87	53-121%	1	30%	
Aniline	2.27	0.200	0.400	ug/L	4	4.00		57	10-120%	0.004	30%	Q-31
4-Chloroaniline	3.21	0.100	0.200	ug/L	4	4.00		80	33-120%	8	30%	
2-Nitroaniline	3.76	0.800	1.60	ug/L	4	4.00		94	55-127%	0.09	30%	
3-Nitroaniline	3.37	0.800	1.60	ug/L	4	4.00		84	41-128%	1	30%	
4-Nitroaniline	3.51	0.800	1.60	ug/L	4	4.00		88	25-120%	0.3	30%	
Nitrobenzene	3.40	0.400	0.800	ug/L	4	4.00		85	45-121%	2	30%	
2,4-Dinitrotoluene	3.69	0.400	0.800	ug/L	4	4.00		92	57-128%	3	30%	
2,6-Dinitrotoluene	3.82	0.400	0.800	ug/L	4	4.00		95	57-124%	0.8	30%	
Benzoic acid	3.81	2.00	2.00	ug/L	4	8.00		48	10-120%	0.3	30%	
Benzyl alcohol	2.38	0.400	0.800	ug/L	4	4.00		59	31-120%	0.9	30%	
Isophorone	3.21	0.100	0.200	ug/L	4	4.00		80	42-124%	0.8	30%	

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0121 - EPA 3510C (A	Acid/Base	Neutral)					Wa	ter				
LCS Dup (22F0121-BSD1)			Prepared	1: 06/03/22	05:24 Anal	yzed: 06/03	/22 13:27					Q-19
Azobenzene (1,2-DPH)	3.63	0.100	0.200	ug/L	4	4.00		91	61-120%	4	30%	
Bis(2-Ethylhexyl) adipate	3.85	1.00	2.00	ug/L	4	4.00		96	63-121%	3	30%	
3,3'-Dichlorobenzidine	10.3	2.00	4.00	ug/L	4	8.00		128	27-129%	3	30%	Q-31
1,2-Dinitrobenzene	3.55	1.00	2.00	ug/L	4	4.00		89	59-120%	0.3	30%	
1,3-Dinitrobenzene	3.69	1.00	2.00	ug/L	4	4.00		92	49-128%	2	30%	
1,4-Dinitrobenzene	4.02	1.00	2.00	ug/L	4	4.00		101	54-120%	0.7	30%	
Pyridine	1.22	0.400	0.800	ug/L	4	4.00		31	10-120%	16	30%	
1,2-Dichlorobenzene	2.23	0.100	0.200	ug/L	4	4.00		56	32-120%	9	30%	
1,3-Dichlorobenzene	2.07	0.100	0.200	ug/L	4	4.00		52	28-120%	5	30%	
1,4-Dichlorobenzene	2.09	0.100	0.200	ug/L	4	4.00		52	29-120%	9	30%	
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 89 %	Limits: 44	1-120 %	Dilı	ıtion: 4x					
2-Fluorobiphenyl (Surr)			96 %	44	!-120 %		"					
Phenol-d6 (Surr)			27 %	10	-133 %		"					
p-Terphenyl-d14 (Surr)			100 %	50	-134 %		"					
2-Fluorophenol (Surr)			37 %	19	-120 %		"					
2,4,6-Tribromophenol (Surr)			97 %	43	-140 %		"					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection Reporting Spike % REC RPD Source Dilution Analyte Result Limit Units Result % REC RPD Limit Amount Limits Limit Notes Batch 22F0210 - EPA 3510C (Acid/Base Neutral) Water Blank (22F0210-BLK1) Prepared: 06/07/22 07:16 Analyzed: 06/07/22 17:06 EPA 8270E Acenaphthene ND 0.00909 0.0182 ug/L ND 0.00909 0.0182 ug/L 1 Acenaphthylene Anthracene ND 0.00909 0.0182 ug/L 1 ND 0.00909 0.01821 Benz(a)anthracene ug/L ND 0.0136 0.0273 ug/L 1 Benzo(a)pyrene ND 0.0136 0.0273 ug/L Benzo(b)fluoranthene 1 ------Benzo(k)fluoranthene ND 0.0136 0.0273 ug/L 1 0.00909 0.0182 ND Benzo(g,h,i)perylene ug/L 1 Chrysene ND 0.00909 0.0182 ug/L 1 Dibenz(a,h)anthracene ND 0.00909 0.0182 ug/L 1 Fluoranthene ND 0.009090.0182 ug/L 1 ND 0.00909 0.0182 Fluorene ug/L 1 ---Indeno(1,2,3-cd)pyrene ND 0.00909 0.0182 ug/L 1 ND 0.0182 0.0364 1-Methylnaphthalene ug/L 1 2-Methylnaphthalene ND 0.01820.0364 ug/L 1 Naphthalene ND 0.0182 0.0364 ug/L 1 ---------Phenanthrene ND 0.00909 0.0182 ug/L 1 ND 0.00909 0.0182 Pyrene ug/L 1 ---------Carbazole ND 0.0136 0.0273 ug/L 1 Dibenzofuran ND 0.00909 0.0182 ug/L 1 2-Chlorophenol ND 0.04550.0909 ug/L 1 4-Chloro-3-methylphenol ND 0.0909 0.182 ug/L 1 ---0.0455 0.0909 2,4-Dichlorophenol ND ug/L 1 2,4-Dimethylphenol ND 0.0455 0.0909 ug/L 1 0.227 0.455 2,4-Dinitrophenol ND ug/L 1 4,6-Dinitro-2-methylphenol ND 0.227 0.455 ug/L 1 2-Methylphenol ND 0.0227 0.0455 ug/L 1 0.0227 3+4-Methylphenol(s) ND 0.0455 ug/L 1 ------2-Nitrophenol ND 0.0909 0.182ug/L 1 0.0909 4-Nitrophenol ND 0.182 ug/L 1 Pentachlorophenol (PCP) ND 0.0909 0.182 ug/L 1 Phenol ND 0.182 0.364 ug/L 1

Apex Laboratories

Philip Merenberg

2,3,4,6-Tetrachlorophenol

ND

0.0455

0.0909

ug/L

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 45 of 68

1



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

BCSAmerica-1-02 Project:

9450 SW Commerce Circle Project Number: [none] Report ID: Wilsonville, OR 97070 Project Manager: Erik Hedberg A2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Detection % REC RPD Reporting Spike Source Analyte Result Units Dilution % REC RPD Limit Limit Amount Result Limits Limit Notes Batch 22F0210 - EPA 3510C (Acid/Base Neutral) Water Blank (22F0210-BLK1) Prepared: 06/07/22 07:16 Analyzed: 06/07/22 17:06 2,3,5,6-Tetrachlorophenol ND 0.0455 0.0909 ug/L 0.0455 ug/L 2,4,5-Trichlorophenol ND 0.0909 1 ------2,4,6-Trichlorophenol ND 0.04550.0909 ug/L 1 Bis(2-ethylhexyl)phthalate ND 0.182 0.364 ug/L 1 Butyl benzyl phthalate ND 0.1820.364 ug/L 1 Diethylphthalate ND 0.182 0.364 ug/L 1 0.182 Dimethylphthalate ND 0.364 ug/L 1 0.182 Di-n-butylphthalate ND 0.364 ug/L 1 0.182 0.364 Di-n-octyl phthalate ND ug/L 1 N-Nitrosodimethylamine ND 0.0227 0.0455 ug/L 1 N-Nitroso-di-n-propylamine ND 0.0227 0.0455 ug/L 1 0.0227 0.0455 N-Nitrosodiphenylamine ND ug/L 1 ND 0.0227 0.0455 Bis(2-Chloroethoxy) methane ug/L 1 ------0.0227 Bis(2-Chloroethyl) ether ND 0.0455ug/L 1 2,2'-Oxybis(1-Chloropropane) ND 0.0227 0.0455 ug/L 1 Hexachlorobenzene ND 0.00909 0.0182 ug/L 1 ND 0.0227 0.0455 Hexachlorobutadiene 1 ug/L Hexachlorocyclopentadiene ND 0.0455 0.0909 1 ug/L 0.0227 Hexachloroethane ND 0.0455 ug/L 1 ---------2-Chloronaphthalene ND 0.00909 0.0182 ug/L 1 1,2,4-Trichlorobenzene ND 0.0227 0.0455 ug/L 1 ---4-Bromophenyl phenyl ether ND 0.0227 0.0455 ug/L 1 4-Chlorophenyl phenyl ether ND 0.0227 0.0455 ug/L 1 Aniline ND 0.0455 0.0909 ug/L 1 ND 0.0227 0.0455 4-Chloroaniline ug/L 1 ---------2-Nitroaniline ND 0.182 0.364 ug/L 1 3-Nitroaniline ND 0.182 0.364 ug/L 1 ---4-Nitroaniline ND 0.182 0.364 ug/L 1 Nitrobenzene ND 0.0909 0.182 ug/L 1

Apex Laboratories

Philip Merenberg

2,4-Dinitrotoluene

2,6-Dinitrotoluene

Benzoic acid

Isophorone

Benzyl alcohol

ND

ND

ND

ND

ND

0.0909

0.0909

1.14

0.0909

0.0227

0.182

0.182

2.27

0.182

0.0455

ug/L

ug/L

ug/L

ug/L

ug/L

1

1

1

1

1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 46 of 68 Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

		Sei	mivolatile	Organic	Compour	ds by EP	A 8270E					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0210 - EPA 3510C (Acid/Base	Neutral)					Wa	ter				
Blank (22F0210-BLK1)			Prepared	1: 06/07/22	07:16 Ana	lyzed: 06/07	/22 17:06					
Azobenzene (1,2-DPH)	0.0267	0.0227	0.0455	ug/L	1							B-02,
Bis(2-Ethylhexyl) adipate	ND	0.227	0.455	ug/L	1							
3,3'-Dichlorobenzidine	ND	0.455	0.909	ug/L	1							Q-5
1,2-Dinitrobenzene	ND	0.227	0.455	ug/L	1							
1,3-Dinitrobenzene	ND	0.227	0.455	ug/L	1							
1,4-Dinitrobenzene	ND	0.227	0.455	ug/L	1							
Pyridine	ND	0.0909	0.182	ug/L	1							
1,2-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1							
1,3-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1							
1,4-Dichlorobenzene	ND	0.0227	0.0455	ug/L	1							
Surr: Nitrobenzene-d5 (Surr)		Reco	very: 96 %	Limits: 4	4-120 %	Dilı	ution: 1x					Q-41
2-Fluorobiphenyl (Surr)			68 %	44	4-120 %		"					
Phenol-d6 (Surr)			25 %	10	0-133 %		"					
p-Terphenyl-d14 (Surr)			93 %	50	0-134 %		"					
2-Fluorophenol (Surr)			40 %	19	0-120 %		"					
2,4,6-Tribromophenol (Surr)			75 %	43	3-140 %		"					
LCS (22F0210-BS1)			Prepared	l: 06/07/22	07:16 Ana	lyzed: 06/07	/22 17:42					
EPA 8270E												
Acenaphthene	2.72	0.0100	0.0200	ug/L	1	4.00		68	47-122%			
Acenaphthylene	3.07	0.0100	0.0200	ug/L	1	4.00		77	41-130%			
Anthracene	3.35	0.0100	0.0200	ug/L	1	4.00		84	57-123%			
Benz(a)anthracene	3.52	0.0100	0.0200	ug/L	1	4.00		88	58-125%			
Benzo(a)pyrene	3.93	0.0150	0.0300	ug/L	1	4.00		98	54-128%			
Benzo(b)fluoranthene	3.57	0.0150	0.0300	ug/L	1	4.00		89	53-131%			
Benzo(k)fluoranthene	3.68	0.0150	0.0300	ug/L	1	4.00		92	57-129%			
Benzo(g,h,i)perylene	3.48	0.0100	0.0200	ug/L	1	4.00		87	50-134%			
Chrysene	3.40	0.0100	0.0200	ug/L	1	4.00		85	59-123%			
Dibenz(a,h)anthracene	3.55	0.0100	0.0200	ug/L	1	4.00		89	51-134%			
Fluoranthene	3.48	0.0100	0.0200	ug/L	1	4.00		87	57-128%			
Fluorene	2.86	0.0100	0.0200	ug/L	1	4.00		71	52-124%			
Indeno(1,2,3-cd)pyrene	3.33	0.0100	0.0200	ug/L	1	4.00		83	52-134%			
1-Methylnaphthalene	2.25	0.0200	0.0400	ug/L	1	4.00		56	41-120%			
2-Methylnaphthalene	2.22	0.0200	0.0400	ug/L	1	4.00		55	40-121%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS Semivolatile Organic Compounds by EPA 8270E

Detection Reporting Spike Source % REC RPD

Analyte	Result	Limit	Limit	Units	Dilution	Amount	Result	% REC	Limits	RPD	Limit	Notes
Batch 22F0210 - EPA 3510C (Acid/Base I	Neutral)					Wa	ter				
LCS (22F0210-BS1)			Prepared	: 06/07/22	07:16 Ana	yzed: 06/07/	/22 17:42					
Naphthalene	2.35	0.0200	0.0400	ug/L	1	4.00		59	40-121%			
Phenanthrene	3.14	0.0100	0.0200	ug/L	1	4.00		79	59-120%			
Pyrene	3.34	0.0100	0.0200	ug/L	1	4.00		83	57-126%			
Carbazole	3.40	0.0150	0.0300	ug/L	1	4.00		85	60-122%			
Dibenzofuran	2.69	0.0100	0.0200	ug/L	1	4.00		67	53-120%			
2-Chlorophenol	2.89	0.0500	0.100	ug/L	1	4.00		72	38-120%			
4-Chloro-3-methylphenol	2.89	0.100	0.200	ug/L	1	4.00		72	52-120%			
2,4-Dichlorophenol	2.74	0.0500	0.100	ug/L	1	4.00		69	47-121%			
2,4-Dimethylphenol	2.52	0.0500	0.100	ug/L	1	4.00		63	31-124%			
2,4-Dinitrophenol	2.91	0.250	0.500	ug/L	1	4.00		73	23-143%			
4,6-Dinitro-2-methylphenol	2.83	0.250	0.500	ug/L	1	4.00		71	44-137%			
2-Methylphenol	2.51	0.0250	0.0500	ug/L	1	4.00		63	30-120%			
3+4-Methylphenol(s)	2.19	0.0250	0.0500	ug/L	1	4.00		55	29-120%			
2-Nitrophenol	2.90	0.100	0.200	ug/L	1	4.00		73	47-123%			
4-Nitrophenol	0.845	0.100	0.200	ug/L	1	4.00		21	10-120%			Q-31
Pentachlorophenol (PCP)	2.64	0.100	0.200	ug/L	1	4.00		66	35-138%			Q-31
Phenol	1.22	0.200	0.400	ug/L	1	4.00		31	10-120%			
2,3,4,6-Tetrachlorophenol	2.73	0.0500	0.100	ug/L	1	4.00		68	50-128%			
2,3,5,6-Tetrachlorophenol	2.61	0.0500	0.100	ug/L	1	4.00		65	50-121%			
2,4,5-Trichlorophenol	2.77	0.0500	0.100	ug/L	1	4.00		69	53-123%			
2,4,6-Trichlorophenol	2.98	0.0500	0.100	ug/L	1	4.00		75	50-125%			
Bis(2-ethylhexyl)phthalate	3.60	0.200	0.400	ug/L	1	4.00		90	55-135%			
Butyl benzyl phthalate	3.97	0.200	0.400	ug/L	1	4.00		99	53-134%			
Diethylphthalate	3.40	0.200	0.400	ug/L	1	4.00		85	56-125%			
Dimethylphthalate	3.21	0.200	0.400	ug/L	1	4.00		80	45-127%			
Di-n-butylphthalate	3.98	0.200	0.400	ug/L	1	4.00		99	59-127%			
Di-n-octyl phthalate	4.25	0.200	0.400	ug/L	1	4.00		106	51-140%			
N-Nitrosodimethylamine	2.02	0.0250	0.0500	ug/L	1	4.00		50	19-120%			
N-Nitroso-di-n-propylamine	3.81	0.0250	0.0500	ug/L	1	4.00		95	49-120%			Q-41
N-Nitrosodiphenylamine	3.39	0.0250	0.0500	ug/L	1	4.00		85	51-123%			
Bis(2-Chloroethoxy) methane	3.29	0.0250	0.0500	ug/L	1	4.00		82	48-120%			
Bis(2-Chloroethyl) ether	3.29	0.0250	0.0500	ug/L	1	4.00		82	43-120%			
2,2'-Oxybis(1-Chloropropane)	3.91	0.0250	0.0500	ug/L	1	4.00		98	41-120%			Q-41
Hexachlorobenzene	3.04	0.0100	0.0200	ug/L	1	4.00		76	53-125%			

Apex Laboratories

Philip Manhera

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution % REC RPD Limit Amount Result Limits Limit Notes Batch 22F0210 - EPA 3510C (Acid/Base Neutral) Water LCS (22F0210-BS1) Prepared: 06/07/22 07:16 Analyzed: 06/07/22 17:42 1.63 0.0250 0.0500 4.00 41 22-124% Hexachlorobutadiene ug/L 0.0500 ug/L Hexachlorocyclopentadiene 1.71 0.100 1 4.00 43 10-127% ---------Hexachloroethane 1.89 0.02500.0500 ug/L 1 4.00 47 21-120% 2-Chloronaphthalene 2.52 0.01000.0200ug/L 1 4.00 63 40-120% 1,2,4-Trichlorobenzene 1.92 0.02500.05004.00 48 29-120% ug/L 1 78 4-Bromophenyl phenyl ether 3.13 0.0250 0.0500 ug/L 1 4.00 55-124% 0.0250 4-Chlorophenyl phenyl ether 2.63 0.0500 ug/L 1 4.00 66 53-121% 4.00 Aniline 2.38 0.0500 0.100 ug/L 1 60 10-120% 0.0250 0.0500 4-Chloroaniline 1.61 ug/L 1 4.00 40 33-120% 2-Nitroaniline 3.10 0.200 0.400ug/L 1 4.00 78 55-127% 3-Nitroaniline 2.71 0.200 0.4004.00 68 41-128% ug/L 1 0.200 37 4-Nitroaniline 1.49 0.400 ug/L 1 4.00 25-120% 0.200 3.57 0.100 4.00 89 45-121% O-41 Nitrobenzene ug/L 1 ---2,4-Dinitrotoluene 3.17 0.100 0.200 ug/L 1 4.00 79 57-128% 77 2,6-Dinitrotoluene 0.100 0.200 4.00 57-124% 3.09 ug/L 1 Benzoic acid 2.31 1.25 1.25 ug/L 1 8.00 29 10-120% 0.100 0.200 4.00 Benzyl alcohol 2.61 1 65 31-120% ug/L Isophorone 3.69 0.0250 0.0500 4.00 92 42-124% ug/L 1 B-02, Q-41 0.0250 0.0500 4.00 61-120% Azobenzene (1,2-DPH) 4.53 ug/L 1 113 ---Bis(2-Ethylhexyl) adipate 3.93 0.250 0.500 ug/L 1 4.00 98 63-121% 3,3'-Dichlorobenzidine 14.1 0.500 1.00 8.00 177 27-129% Q-29, Q-41, E ug/L 1 ---1,2-Dinitrobenzene 3.10 0.250 0.500 ug/L 1 4.00 78 59-120% 1,3-Dinitrobenzene 2.96 0.250 0.500 ug/L 4.00 74 49-128% 1 1,4-Dinitrobenzene 3.04 0.250 0.500 ug/L 1 4.00 76 54-120% 0.100 4.00 39 Pyridine 1.58 0.200 ug/L 1 10-120% ---1,2-Dichlorobenzene 1.87 0.0250 0.0500 ug/L 1 4.00 47 32-120% 1.78 0.0250 0.0500 4 00 44 28-120% 1.3-Dichlorobenzene ug/L 1 ------1,4-Dichlorobenzene 1.86 0.0250 0.0500 ug/L 1 4.00 46 29-120% Q-41 Surr: Nitrobenzene-d5 (Surr) Recovery: 97% Limits: 44-120 % Dilution: 1x 2-Fluorobiphenyl (Surr) 78% 44-120 % Phenol-d6 (Surr) 27% 10-133 % p-Terphenyl-d14 (Surr) 93 % 50-134 % 2-Fluorophenol (Surr) 43 % 19-120 % 2,4,6-Tribromophenol (Surr) 83 % 43-140 %

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 49 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E Detection % REC RPD Reporting Spike Source Analyte Result Limit Units Dilution Amount Result % REC RPD Limit Limits Limit Notes Batch 22F0210 - EPA 3510C (Acid/Base Neutral) Water LCS Dup (22F0210-BSD1) Prepared: 06/07/22 07:16 Analyzed: 06/07/22 18:18 Q-19 EPA 8270E 0.0100 Acenaphthene 2.66 0.0200 ug/L 1 4.00 67 47-122% 2 30% Acenaphthylene 3.04 0.0100 0.0200 ug/L 1 4.00 76 41-130% 1 30% Anthracene 3.36 0.01000.0200 ug/L 1 4.00 84 57-123% 0.4 30% 3.57 0.0100 0.0200 1 4.00 89 58-125% 1 30% Benz(a)anthracene ug/L Benzo(a)pyrene 3.98 0.0150 0.0300ug/L 1 4.00 100 54-128% 1 30% Benzo(b)fluoranthene 3.76 0.0150 0.0300 ug/L 1 4.00 94 53-131% 5 30% 57-129% 0.0150 0.0300 2 Benzo(k)fluoranthene 3.76 ug/L 1 4.00 94 30% 0.0200 50-134% Benzo(g,h,i)perylene 3.53 0.0100 ug/L 1 4.00 88 2 30% Chrysene 3.38 0.01000.0200ug/L 1 4.00 85 59-123% 0.7 30% Dibenz(a,h)anthracene 3.55 0.0100 0.0200 1 4.00 89 51-134% 0.08 30% ug/L Fluoranthene 3.44 0.0100 0.0200ug/L 1 4.00 86 57-128% 1 30% Fluorene 2.84 0.01000.0200ug/L 1 4.00 71 52-124% 0.7 30% 3.43 0.0100 0.0200 4.00 86 52-134% 30% Indeno(1,2,3-cd)pyrene ug/L 1 3 53 1-Methylnaphthalene 2.12 0.0200 0.0400 ug/L 1 4.00 41-120% 6 30% 2-Methylnaphthalene 0.0200 0.0400 4.00 52 40-121% 2.08 ug/L 1 6 30% 55 Naphthalene 2.19 0.0200 0.0400 ug/L 1 4.00 40-121% 7 30% 0.0100 0.0200 Phenanthrene 3.19 ug/L 1 4.00 80 59-120% 2 30% Pyrene 3.36 0.01000.0200ug/L 1 4.00 84 57-126% 0.7 30% Carbazole 87 0.0150 0.0300 4.00 60-122% 2 30% 3.48 ug/L 1 0.0100 Dibenzofuran 2.66 0.0200 ug/L 1 4.00 66 53-120% 1 30% 2-Chlorophenol 2.92 0.0500 0.100 ug/L 4.00 73 38-120% 1 30% 1 0.100 0.200 74 52-120% 2 4-Chloro-3-methylphenol 2.96 ug/L 1 4.00 30% 0.100 0.0500 4.00 71 47-121% 30% 2,4-Dichlorophenol 2.84 ug/L 1 4 2,4-Dimethylphenol 2.71 0.0500 0.100 ug/L 1 4.00 68 31-124% 7 30% 0.250 0.500 4.00 72 30% 2,4-Dinitrophenol 2.89 1 23-143% 0.9 ug/L 4,6-Dinitro-2-methylphenol 2.82 0.250 0.500 4.00 70 44-137% 30% ug/L 1 0.4 2-Methylphenol 2.58 0.0250 0.0500 ug/L 1 4.00 64 30-120% 3 30% 3+4-Methylphenol(s) 2.26 0.0250 0.0500 4.00 57 29-120% 3 30% ug/L 1 2.97 0.100 0.200 4.00 74 47-123% 2 30% 2-Nitrophenol ug/L 1 4-Nitrophenol 0.882 0.100 0.200 ug/L 1 4.00 22 10-120% 4 30% O-31 Pentachlorophenol (PCP) 0.100 0.200 4.00 65 35-138% 1 30% Q-31 2.61 ug/L 1 1.31 0.200 0.400 ug/L 1 4.00 33 10-120% 7 30% 0.0500 0.100 ug/L 4.00 0.5 2,3,4,6-Tetrachlorophenol 2.74 1 69 50-128% 30%

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 50 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

Semivolatile Organic Compounds by EPA 8270E

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0210 - EPA 3510C (A	Acid/Base	Neutral)					Wa	ter				
LCS Dup (22F0210-BSD1)			Prepared	: 06/07/22	07:16 Ana	lyzed: 06/07	/22 18:18					Q-19
2,3,5,6-Tetrachlorophenol	2.62	0.0500	0.100	ug/L	1	4.00		65	50-121%	0.06	30%	
2,4,5-Trichlorophenol	2.80	0.0500	0.100	ug/L	1	4.00		70	53-123%	0.8	30%	
2,4,6-Trichlorophenol	3.03	0.0500	0.100	ug/L	1	4.00		76	50-125%	2	30%	
Bis(2-ethylhexyl)phthalate	3.71	0.200	0.400	ug/L	1	4.00		93	55-135%	3	30%	
Butyl benzyl phthalate	3.87	0.200	0.400	ug/L	1	4.00		97	53-134%	3	30%	
Diethylphthalate	3.39	0.200	0.400	ug/L	1	4.00		85	56-125%	0.3	30%	
Dimethylphthalate	3.20	0.200	0.400	ug/L	1	4.00		80	45-127%	0.5	30%	
Di-n-butylphthalate	3.96	0.200	0.400	ug/L	1	4.00		99	59-127%	0.5	30%	
Di-n-octyl phthalate	4.33	0.200	0.400	ug/L	1	4.00		108	51-140%	2	30%	
N-Nitrosodimethylamine	2.09	0.0250	0.0500	ug/L	1	4.00		52	19-120%	4	30%	
N-Nitroso-di-n-propylamine	3.88	0.0250	0.0500	ug/L	1	4.00		97	49-120%	2	30%	Q-41
N-Nitrosodiphenylamine	3.48	0.0250	0.0500	ug/L	1	4.00		87	51-123%	3	30%	
Bis(2-Chloroethoxy) methane	3.37	0.0250	0.0500	ug/L	1	4.00		84	48-120%	2	30%	
Bis(2-Chloroethyl) ether	3.38	0.0250	0.0500	ug/L	1	4.00		84	43-120%	2	30%	
2,2'-Oxybis(1-Chloropropane)	3.92	0.0250	0.0500	ug/L	1	4.00		98	41-120%	0.09	30%	Q-41
Hexachlorobenzene	3.11	0.0100	0.0200	ug/L	1	4.00		78	53-125%	2	30%	
Hexachlorobutadiene	1.34	0.0250	0.0500	ug/L	1	4.00		34	22-124%	20	30%	
Hexachlorocyclopentadiene	1.40	0.0500	0.100	ug/L	1	4.00		35	10-127%	20	30%	
Hexachloroethane	1.59	0.0250	0.0500	ug/L	1	4.00		40	21-120%	17	30%	
2-Chloronaphthalene	2.37	0.0100	0.0200	ug/L	1	4.00		59	40-120%	6	30%	
1,2,4-Trichlorobenzene	1.70	0.0250	0.0500	ug/L	1	4.00		42	29-120%	13	30%	
4-Bromophenyl phenyl ether	3.11	0.0250	0.0500	ug/L	1	4.00		78	55-124%	0.7	30%	
4-Chlorophenyl phenyl ether	2.58	0.0250	0.0500	ug/L	1	4.00		64	53-121%	2	30%	
Aniline	2.68	0.0500	0.100	ug/L	1	4.00		67	10-120%	12	30%	
4-Chloroaniline	2.05	0.0250	0.0500	ug/L	1	4.00		51	33-120%	24	30%	
2-Nitroaniline	3.14	0.200	0.400	ug/L	1	4.00		78	55-127%	1	30%	
3-Nitroaniline	2.96	0.200	0.400	ug/L	1	4.00		74	41-128%	9	30%	
4-Nitroaniline	1.75	0.200	0.400	ug/L	1	4.00		44	25-120%	16	30%	
Nitrobenzene	3.69	0.100	0.200	ug/L	1	4.00		92	45-121%	3	30%	Q-41
2,4-Dinitrotoluene	3.18	0.100	0.200	ug/L	1	4.00		80	57-128%	0.2	30%	
2,6-Dinitrotoluene	3.15	0.100	0.200	ug/L	1	4.00		79	57-124%	2	30%	
Benzoic acid	2.25	1.25	1.25	ug/L	1	8.00		28	10-120%		30%	
Benzyl alcohol	2.69	0.100	0.200	ug/L	1	4.00		67	31-120%		30%	
Isophorone	3.72	0.0250	0.0500	ug/L	1	4.00		93	42-124%	0.7	30%	

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS Semivolatile Organic Compounds by EPA 8270E

Reporting Detection Spike Source % REC **RPD** Dilution % REC Analyte Result Ĺimit Units Amount Result Limits RPD Limit Notes Limit

Batch 22F0210 - EPA 3510C (A	cid/Base N	eutral)					Wa	ater				
LCS Dup (22F0210-BSD1)			Prepared	1: 06/07/22 07	7:16 Ana	alyzed: 06/07/	/22 18:18					Q-19
Azobenzene (1,2-DPH)	4.50	0.0250	0.0500	ug/L	1	4.00		112	61-120%	0.7	30%	B-02, Q-4
Bis(2-Ethylhexyl) adipate	3.98	0.250	0.500	ug/L	1	4.00		99	63-121%	1	30%	
3,3'-Dichlorobenzidine	17.0	0.500	1.00	ug/L	1	8.00		213	27-129%	18	30%	Q-29, Q-41,
1,2-Dinitrobenzene	3.14	0.250	0.500	ug/L	1	4.00		79	59-120%	1	30%	
1,3-Dinitrobenzene	3.00	0.250	0.500	ug/L	1	4.00		75	49-128%	1	30%	
1,4-Dinitrobenzene	3.11	0.250	0.500	ug/L	1	4.00		78	54-120%	2	30%	
Pyridine	1.69	0.100	0.200	ug/L	1	4.00		42	10-120%	7	30%	
1,2-Dichlorobenzene	1.63	0.0250	0.0500	ug/L	1	4.00		41	32-120%	14	30%	
1,3-Dichlorobenzene	1.53	0.0250	0.0500	ug/L	1	4.00		38	28-120%	15	30%	
1,4-Dichlorobenzene	1.61	0.0250	0.0500	ug/L	1	4.00		40	29-120%	14	30%	
Surr: Nitrobenzene-d5 (Surr)		Recove	ry: 96 %	Limits: 44-1	20 %	Dilı	tion: 1x					Q-41
2-Fluorobiphenyl (Surr)			71 %	44-1	20 %		"					
Phenol-d6 (Surr)			27 %	10-1	33 %		"					
p-Terphenyl-d14 (Surr)			88 %	50-1	34 %		"					
2-Fluorophenol (Surr)			43 %	19-1	20 %		"					
2,4,6-Tribromophenol (Surr)			78 %	43-1	40 %		"					

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

<u>NV5</u> Project: <u>BCSAmerica-1-02</u>

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total N	letals by	/ EPA 200	.8 (ICPMS)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0182 - EPA 3015A							Wa	ter				
Blank (22F0182-BLK1)			Prepared	: 06/06/22	10:57 Ana	lyzed: 06/07/	/22 00:48					
EPA 200.8												
Antimony	ND	0.500	1.00	ug/L	1							
Arsenic	ND	0.500	1.00	ug/L	1							
Beryllium	ND	0.100	0.200	ug/L	1							
Cadmium	ND	0.100	0.200	ug/L	1							
Chromium	ND	1.00	2.00	ug/L	1							
Copper	ND	1.00	2.00	ug/L	1							
Lead	ND	0.100	0.200	ug/L	1							
Mercury	ND	0.0400	0.0800	ug/L	1							
Nickel	ND	1.00	2.00	ug/L	1							
Selenium	ND	0.500	1.00	ug/L	1							
Silver	ND	0.100	0.200	ug/L	1							
Thallium	ND	0.100	0.200	ug/L	1							
Blank (22F0182-BLK2)			Prepared	: 06/06/22	10:57 Ana	lyzed: 06/07/	/22 12:30					
EPA 200.8			•									
Zinc	ND	2.00	4.00	ug/L	1							Q-1
LCS (22F0182-BS1)			Prepared	: 06/06/22	10:57 Ana	lyzed: 06/07/	/22 00:53					
EPA 200.8												
Antimony	29.0	0.500	1.00	ug/L	1	27.8		105	85-115%			
Arsenic	52.3	0.500	1.00	ug/L	1	55.6		94	85-115%			
Beryllium	26.3	0.100	0.200	ug/L	1	27.8		95	85-115%			
Cadmium	52.3	0.100	0.200	ug/L	1	55.6		94	85-115%			
Chromium	51.3	1.00	2.00	ug/L	1	55.6		92	85-115%			
Copper	53.9	1.00	2.00	ug/L	1	55.6		97	85-115%			
Lead	52.1	0.100	0.200	ug/L	1	55.6		94	85-115%			
Mercury	1.02	0.0400	0.0800	ug/L	1	1.11		92	85-115%			
Nickel	53.9	1.00	2.00	ug/L	1	55.6		97	85-115%			
Selenium	24.8	0.500	1.00	ug/L	1	27.8		89	85-115%			
Silver	26.4	0.100	0.200	ug/L	1	27.8		95	85-115%			
Thallium	24.9	0.100	0.200	ug/L	1	27.8		90	85-115%			
Zinc	56.8	2.00	4.00	ug/L	1	55.6		102	85-115%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total N	letals by	EPA 200	.8 (ICPMS)						┙
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 22F0182 - EPA 3015A							Wa	ter					
Duplicate (22F0182-DUP1)			Prepared	: 06/06/22	10:57 Ana	yzed: 06/07/	/22 01:42						
QC Source Sample: Non-SDG (A2	E1020-01)												
Antimony	ND	0.500	1.00	ug/L	1		ND				20%		
Arsenic	ND	0.500	1.00	ug/L	1		ND				20%		
Beryllium	ND	0.100	0.200	ug/L	1		ND				20%		
Cadmium	ND	0.100	0.200	ug/L	1		ND				20%		
Chromium	ND	1.00	2.00	ug/L	1		ND				20%		
Copper	1.40	1.00	2.00	ug/L	1		1.45			4	20%		J
Lead	0.191	0.100	0.200	ug/L	1		0.183			4	20%		J
Mercury	ND	0.0400	0.0800	ug/L	1		ND				20%		
Nickel	ND	1.00	2.00	ug/L	1		ND				20%		
Selenium	ND	0.500	1.00	ug/L	1		ND				20%		
Silver	ND	0.100	0.200	ug/L	1		ND				20%		
Thallium	ND	0.100	0.200	ug/L	1		ND				20%		
Zinc	33.1	2.00	4.00	ug/L	1		33.7			2	20%		
Matrix Spike (22F0182-MS1)			Prepared	: 06/06/22	10:57 Ana	yzed: 06/07/	/22 01:47						
QC Source Sample: Non-SDG (A2	E1020-01)												_
EPA 200.8													
Antimony	26.8	0.500	1.00	ug/L	1	27.8	ND	97	70-130%				
Arsenic	51.9	0.500	1.00	ug/L	1	55.6	ND	93	70-130%				
Beryllium	25.8	0.100	0.200	ug/L	1	27.8	ND	93	70-130%				
Cadmium	51.0	0.100	0.200	ug/L	1	55.6	ND	92	70-130%				
Chromium	49.6	1.00	2.00	ug/L	1	55.6	ND	89	70-130%				
Copper	55.4	1.00	2.00	ug/L	1	55.6	1.45	97	70-130%				
Lead	52.1	0.100	0.200	ug/L	1	55.6	0.183	94	70-130%				
Mercury	1.03	0.0400	0.0800	ug/L	1	1.11	ND	93	70-130%				
Nickel	52.5	1.00	2.00	ug/L	1	55.6	ND	95	70-130%				
Selenium	24.1	0.500	1.00	ug/L	1	27.8	ND	87	70-130%				
Silver	26.0	0.100	0.200	ug/L	1	27.8	ND	94	70-130%				
Thallium	24.8	0.100	0.200	ug/L	1	27.8	ND	89	70-130%				
Zinc	84.3	2.00	4.00	ug/L	1	55.6	33.7	91	70-130%				

Apex Laboratories

Matrix Spike (22F0182-MS2)

Philip Monterg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Prepared: 06/06/22 10:57 Analyzed: 06/07/22 03:12



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

			Total N	letals by	EPA 200	.8 (ICPMS	5)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0182 - EPA 3015A							Wa	ter				
Matrix Spike (22F0182-MS2)			Prepared	: 06/06/22	10:57 Anal	yzed: 06/07/	/22 03:12					
QC Source Sample: Non-SDG (A2)	F0121-01)											
EPA 200.8												
Antimony	27.7	0.500	1.00	ug/L	1	27.8	ND	100	70-130%			
Arsenic	56.3	0.500	1.00	ug/L	1	55.6	6.65	89	70-130%			
Beryllium	25.2	0.100	0.200	ug/L	1	27.8	ND	91	70-130%			
Cadmium	50.8	0.100	0.200	ug/L	1	55.6	ND	91	70-130%			
Chromium	49.1	1.00	2.00	ug/L	1	55.6	ND	88	70-130%			
Copper	60.2	1.00	2.00	ug/L	1	55.6	7.98	94	70-130%			
Lead	53.7	0.100	0.200	ug/L	1	55.6	4.10	89	70-130%			
Mercury	0.942	0.0400	0.0800	ug/L	1	1.11	ND	85	70-130%			
Nickel	55.9	1.00	2.00	ug/L	1	55.6	4.24	93	70-130%			
Selenium	25.0	0.500	1.00	ug/L	1	27.8	ND	90	70-130%			
Silver	26.0	0.100	0.200	ug/L	1	27.8	ND	94	70-130%			
Thallium	24.1	0.100	0.200	ug/L	1	27.8	ND	87	70-130%			
Zinc	152	2.00	4.00	ug/L	1	55.6	104	87	70-130%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

		To	tal Metals	by EPA	200.8 (ICP	MS) - Lov	w Level					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0281 - EPA 3015A							Wa	ter				
Blank (22F0281-BLK1)			Prepared	06/08/22	10:27 Anal	yzed: 06/09	/22 21:38					
EPA 200.8-LL												
Cadmium	ND	0.0200	0.0400	ug/L	1							
Blank (22F0281-BLK2)			Prepared	06/08/22	10:27 Anal	yzed: 06/10	/22 18:23					
EPA 200.8-LL												
Arsenic	ND	0.0200	0.0400	ug/L	1							Q-16
LCS (22F0281-BS1)			Prepared	: 06/08/22	10:27 Anal	yzed: 06/09	/22 22:59					
EPA 200.8-LL												
Arsenic	5.36	0.100	0.200	ug/L	1	5.56		97	85-115%			
Cadmium	5.10	0.0200	0.0400	ug/L	1	5.56		92	85-115%			
Duplicate (22F0281-DUP1)			Prepared	: 06/08/22	10:27 Anal	yzed: 06/09	/22 21:53					
QC Source Sample: Non-SDG (A2)	E1027-01)											
Cadmium	ND	0.0200	0.0400	ug/L	1		ND				20%	
Duplicate (22F0281-DUP2)			Prepared	: 06/08/22	10:27 Anal	yzed: 06/10	/22 18:38					
QC Source Sample: Non-SDG (A2)	E1027-01R	E1)										
Arsenic	0.159	0.0200	0.0400	ug/L	1		0.156			2	20%	Q-16
Matrix Spike (22F0281-MS1)			Prepared	: 06/08/22	10:27 Anal	lyzed: 06/09	/22 23:07					
QC Source Sample: SW-1(052822)	(A2F0009-	<u>-01)</u>										
EPA 200.8-LL												
Arsenic	5.85	0.100	0.200	ug/L	1	5.56	0.357	99	70-130%			
Cadmium	5.49	0.0200	0.0400	ug/L	1	5.56	0.0523	98	70-130%			

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

<u>NV5</u> Project: <u>BCSAmerica-1-02</u>

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

QUALITY CONTROL (QC) SAMPLE RESULTS

			Solid a	nd Moist	ture Dete	rmination	S					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 22F0112 - Total Suspen	ded Solid	s					Wat	er				
Blank (22F0112-BLK1)			Prepared	: 06/02/22	18:53 Anal	yzed: 06/02/	22 18:53					
SM 2540 D												
Total Suspended Solids	ND	5.00	5.00	mg/L	1							
Duplicate (22F0112-DUP1)			Prepared	: 06/02/22	18:53 Anal	yzed: 06/02/	/22 18:53					
QC Source Sample: Non-SDG (A2	2F0002-01)											
Total Suspended Solids	134	10.0	10.0	mg/L	1		126			6.13	10%	
Reference (22F0112-SRM1)			Prepared	: 06/02/22	18:53 Anal	yzed: 06/02/	/22 18:53					
SM 2540 D												
Total Suspended Solids	906			mg/L	1	811		112	85-115%			

Apex Laboratories

Philip Manhera

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

Weck Laboratories, Inc.

QUALITY CONTROL (QC) SAMPLE RESULTS

				Organo 1	Tin by GC	/MS						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch W2F0377 - EPA 3510C							Wa	ter				
Blank (W2F0377-BLK1)			Prepared	: 06/06/22	10:52 Anal	yzed: 06/10/	22 16:22					
<u>SM 6710B</u>												
Tri-n-butyltin	ND		0.0050	ug/l	1							
Surr: Tripentyltin		Recov	very: 95 %	Limits: 43	3-179 %	Dilı	tion: 1x					
LCS (W2F0377-BS1)			Prepared	: 06/06/22	10:52 Anal	yzed: 06/10/	/22 16:03					
<u>SM 6710B</u>												
Tri n hutultin												
Tri-n-butyltin	0.00898		0.0050	ug/l	1	0.0100		90	50-150%			
Surr: Tripentyltin	0.00898		0.0050 ery: 100 %	ug/l Limits: 43	1 3-179 %		tion: Ix	90	50-150%			
	0.00898		ery: 100 %	Limits: 43	1 3-179 % 10:52 Anal	Dilı	ttion: Ix	90	50-150%			
Surr: Tripentyltin	0.00898		ery: 100 %	Limits: 43		Dilı	ttion: Ix	90	50-150%			_
Surr: Tripentyltin LCS Dup (W2F0377-BSD1)	0.00898		ery: 100 %	Limits: 43		Dilı	ttion: Ix	90	50-150%	34	40%	

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

SAMPLE PREPARATION INFORMATION

		Diesel and	l/or Oil Hydrocarbor	s by NWTPH-Dx			
Prep: EPA 3510C (Fu	els/Acid Ext.)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22F0123			•				
A2F0009-01	Water	NWTPH-Dx	05/28/22 14:57	06/03/22 05:26	1070 mL/5 mL	1000mL/5mL	0.94
A2F0009-02	Water	NWTPH-Dx	05/28/22 15:39	06/03/22 05:26	1070mL/5mL	1000mL/5mL	0.94
	Gas	oline Range Hydrocart	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22F0069			•	•			
A2F0009-01	Water	NWTPH-Gx (MS)	05/28/22 14:57	06/02/22 11:06	5mL/5mL	5mL/5mL	1.00
A2F0009-02	Water	NWTPH-Gx (MS)	05/28/22 15:39	06/02/22 11:06	5mL/5mL	5mL/5mL	1.00
		Volatile 0	Organic Compounds	by EPA 8260D			
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22F0069							
A2F0009-01	Water	EPA 8260D	05/28/22 14:57	06/02/22 11:06	5mL/5mL	5mL/5mL	1.00
A2F0009-02	Water	EPA 8260D	05/28/22 15:39	06/02/22 11:06	5mL/5mL	5mL/5mL	1.00
		Volatile Orç	ganic Compounds b	y EPA 8260D SIM			
Prep: EPA 5030B					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22F0143			1	*			
A2F0009-01	Water	EPA 8260D SIM	05/28/22 14:57	06/03/22 13:30	5mL/5mL	5mL/5mL	1.00
A2F0009-02	Water	EPA 8260D SIM	05/28/22 15:39	06/03/22 13:30	5mL/5mL	5mL/5mL	1.00
		Polychl	orinated Biphenyls l	oy EPA 8082A			
Prep: EPA 3510C (Ne	eutral pH)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22F0177			•	*			
A2F0009-01	Water	EPA 8082A	05/28/22 14:57	06/06/22 10:19	1060mL/1mL	1000mL/1mL	0.94
A2F0009-02	Water	EPA 8082A	05/28/22 15:39	06/06/22 10:19	1060mL/1mL	1000mL/1mL	0.94

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

SAMPLE PREPARATION INFORMATION

		Semivolati	le Organic Compour	nds by EPA 8270E			
Prep: EPA 3510C (Acid/B	ase Neutral)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22F0121							
A2F0009-01RE3	Water	EPA 8270E	05/28/22 14:57	06/03/22 05:24	1070 mL/1 mL	1000 mL/1 mL	0.94
A2F0009-01RE4	Water	EPA 8270E	05/28/22 14:57	06/03/22 05:24	1070 mL/1 mL	1000 mL/1 mL	0.94
A2F0009-02RE1	Water	EPA 8270E	05/28/22 15:39	06/03/22 05:24	1070 mL/1 mL	1000 mL/1 mL	0.94
A2F0009-02RE2	Water	EPA 8270E	05/28/22 15:39	06/03/22 05:24	1070mL/1mL	1000mL/1mL	0.94
		Tota	al Metals by EPA 200	.8 (ICPMS)			
Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22F0182							
A2F0009-01	Water	EPA 200.8	05/28/22 14:57	06/06/22 10:57	45mL/50mL	45mL/50mL	1.00
A2F0009-02	Water	EPA 200.8	05/28/22 15:39	06/06/22 10:57	45mL/50mL	45mL/50mL	1.00
		Total Meta	als by EPA 200.8 (ICI	PMS) - Low Level			
Prep: EPA 3015A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22F0281			1	1			
A2F0009-01	Water	EPA 200.8-LL	05/28/22 14:57	06/08/22 10:27	45mL/50mL	45mL/50mL	1.00
A2F0009-02	Water	EPA 200.8-LL	05/28/22 15:39	06/08/22 10:27	45mL/50mL	45mL/50mL	1.00
		Sol	id and Moisture Dete	erminations			
Prep: Total Suspended S	olids				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 22F0112			*				
A2F0009-01	Water	SM 2540 D	05/28/22 14:57	06/02/22 18:53			NA
A2F0009-02	Water	SM 2540 D	05/28/22 15:39	06/02/22 18:53			NA

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

Weck Laboratories, Inc.

SAMPLE PREPARATION INFORMATION

Organo Tin by GC/MS											
Prep: EPA 3510C					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
Batch: W2F0377											
A2F0009-01	Water	SM 6710B	05/28/22 14:57	06/06/22 10:52	1053ml/1ml	1000ml/1ml	0.95				
A2F0009-02	Water	SM 6710B	05/28/22 15:39	06/06/22 10:52	1052ml/1ml	1000ml/1ml	0.95				

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 61 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

BCSAmerica-1-02 NV5 Project:

9450 SW Commerce Circle Project Number: [none] Report ID: Wilsonville, OR 97070 Project Manager: Erik Hedberg A2F0009 - 07 09 22 1453

QUALIFIER DEFINITIONS

Client Sample and Quality Control (QC) Sample Qualifier Definitions:

Apex Laboratories

B-02 Analyte detected in an associated blank at a level between one-half the MRL and the MRL. (See Notes and Conventions below.) C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference. E Estimated Value. The result is above the calibration range of the instrument. EST Result reported as an Estimated Value. Analyte has inconsistent response and GC basline fluctuation resulting in elevated reporting limit. J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL. P-09 Due to weathering and/or the presence of an unknown mixture of PCB Congeners, the pattern does not match the standard used for calibration. Results are Estimated and based on the closest matching Aroclor. Q-16 Reanalysis of an original Batch QC sample. O-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis. O-29 Recovery for Lab Control Spike (LCS) is above the upper control limit. Data may be biased high. O-31 Estimated Results. Recovery of Continuing Calibration Verification sample below lower control limit for this analyte. Results are likely biased low. O-41 Estimated Results. Recovery of Continuing Calibration Verification sample above upper control limit for this analyte. Results are likely biased high. O-52 Due to known erratic recoveries, the result and reporting levels for this analyte are reported as Estimated Values. This analyte may not have passed all QC requirements for this method. Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +10%. The results are reported as Estimated Values. Q-54a Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +13%. The results are reported as Estimated Values. Q-54b Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +14%. The results are reported as Estimated Values. Q-54c Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +17%. The

Apex Laboratories

Philip Nevenberg

Q-54d

Q-54e

Q-54f

results are reported as Estimated Values.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Page 62 of 68 Philip Nerenberg, Lab Director

Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +2%. The

Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +3%. The

Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +32%. The



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

 NV5
 Project:
 BCSAmerica-1-02

 9450 SW Commerce Circle
 Project Number:
 [none]
 Report ID:

 Wilsonville, OR 97070
 Project Manager:
 Erik Hedberg
 A2F0009 - 07 09 22 1453

Q-54g Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +35%. The results are reported as Estimated Values.

Q-54h Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by +4%. The results are reported as Estimated Values.

Q-56 Daily CCV/LCS recovery for this analyte was above the +/-20% criteria listed in EPA 8260

S-03 Sample re-extract, or the analysis of an associated Batch QC sample, confirms surrogate failure due to sample matrix effect.

S-06 Surrogate recovery is outside of established control limits.

Apex Laboratories

Philip Neimberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 63 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number:[none]Report ID:Wilsonville, OR 97070Project Manager:Erik HedbergA2F0009 - 07 09 22 1453

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).

If no value is listed ('----'), then the data has not been evaluated below the Reporting Limit.

Reporting Limits: Limit of Quantitation (LOQ)

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

Reporting Conventions:

Basis: Results for soil samples are generally reported on a 100% dry weight basis.

The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

"___" Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

QC Source:

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

Miscellaneous Notes:

"---" QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" *** " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

- -For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
- -For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

Apex Laboratories

Philip Manhera

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 64 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number:[none]Report ID:Wilsonville, OR 97070Project Manager:Erik HedbergA2F0009 - 07 09 22 1453

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks (Cont.):

Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

Soil and Sediment Samples:

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

Sampling and Preservation Notes:

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

Apex Laboratories

Philip Nevenberg

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 65 of 68



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number:[none]Report ID:Wilsonville, OR 97070Project Manager:Erik HedbergA2F0009 - 07 09 22 1453

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -EPA ID: OR01039

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the <u>exception</u> of any analyte(s) listed below:

Apex Laboratories

Matrix Analysis TNI_ID Analyte TNI_ID Accreditation

All reported analytes are included in Apex Laboratories' current ORELAP scope.

Secondary Accreditations

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

Philip Nevenberg

Results for Field Tested data are provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 66 of 68

Apex Laboratories

9450 SW Commerce Circle Wilsonville, OR 97070

Project Number: [none]
Project Manager: Erik Hedberg

Report ID: A2F0009 - 07 09 22 1453 BCSAmerica-1-02

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323 ORELAP ID: OR100062

CHAIN OF CUSTODY

Lab# # # AUFODO9 COC of (

6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323

APEX LABS

or ou on bandourg or., rigura, Or)																											
Company: NVS		Project	Mgr: E	rik	Heds	ee 7				Pro	ject N	ame:	BC	SAn	n ci	Œ	- 1-	-07		Proje	ect#:						
Address: 9450 SW Connesce	Gr Ste	300 W	آلجسر 02 ع	ارالو 1307ء	ė.	Phone: \$3 468 8767				Vame: BCSAmerica - 1-07 Email: erik. helberg @NVS. com					PO #												
Sampled by: Julian Peter		38350									ANALYSIS REQUEST																
Site Location:													, t	126			As	Cd, Pb, i, K, TCLP									
OR WA CA				8					ş		ist		8270 Semi-Vols Full List	8082 PCBs CON leve			+	Z Z Z			2		1				
AK ID				INE	А				VOC	Š	J III	Hs	ols F	3	es	(8) si	ls (13	Ea, B Mo, I, V, I, V,	8	Ex	3	2					
AK ID	į		Ų	# OF CONTAINERS	NWTPH-HCID	-F-Dx	NWTPH-Gx	8260 BTEX	8260 RBDM VOCS	8260 Halo VOCs	8260 VOCs Full List	8270 SIM PAHs	wi-V	Bs	8081 Pesticides	RCRA Metals (8)	Priority Metals (13) +	Mb, B	TCLP Metals (8)	アナナーなかり	Doxin/Fran	B.tyl ting				pje	Frozen Archive
	DATE	E	MATRIX	F CO	VIP	VIP	VTP	50 BJ	50 RF	60 Hs	30 VC	NO SE	O Sel	PC PC	11 Pe	RA 1	rity	Sb. Cr.	LP	7	X	7	X			Hold Sample	ен А
SAMPLE ID	ă	TIME		0 #	ž	ž		820	820	820	826	827	827	808	808	RC	Pric	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mu, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn TOTAL DISS. TCLP	TC	Y	S	κŽ	1			Hold	Froz
SW-1(052822)	42822	1457	55	15		X	X				X		×	X			X			X	X	X	X				
SW-2(052822)	2/20/22	1537	55	ιS		X	X				X		X	X			×		s.	X	X	X	X				
											- 1																
															_				_								
																									+		H
	1															_						-			+	-	\vdash
	+																-			-		-	-		-	+	H
					-				\dashv	_														\dashv	-		\vdash
																						_	$\vdash \dashv$		-	+	Н
V Production															_									_	\downarrow		
Standard Tun	- A 1 T	(TAT) = 10 D		D							CDE	OTAT	Diam	DITION	T/ON!						<u> </u>					
Standard Tur		····		22.70							Portland Herber- Meed lovest level mills																
TAT Requested (circle)	1 Day		2 Day		3	Day						* 1	ו קייונ	and	2	neu	ec.	- / / /	3	ICAN	٦	. 16	wa	· pr	ipus		
1A1 Requested (Circle)	5 Day	8	tandar	d	Ot	her:																					
SAMPLI	ES ARE HE																										
RELINQUISHED BY:			RECEI	VED BY	Y:								-	SHED	BY:						EIVE	D BY:					
Signature	Date: 3/31	100	Signature	-61				Date:	1.			Signat	4					Date:		Signa	ture:	/		' I	Date:	6	
Printed Name:	Time:		Printed 1	Name	5—			Time:	1/2	2		Printe	d Nam	ie.				5/31/22 Time:		Print	ed Narr	1e.	D	<u> </u>	0/ \$// Cime:	rz	_
Julian Peter	06	7 ∪	Eu	.1	2)(3	72/		00	o 3c					He	N26	ئ ر		1340		1	30	7		1	34	>	
Company: NY \$			Compan	ıy:					- 50	-		Comp	any:	116	אכות			10	-		pany:	~	<u> </u>		77		
N / >			W	5								W	15								-	4	res	<			
ACCOMMON ACCOUNTS								_							_												

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

NV5 Project: BCSAmerica-1-02

9450 SW Commerce CircleProject Number: [none]Report ID:Wilsonville, OR 97070Project Manager: Erik HedbergA2F0009 - 07 09 22 1453

APEX LABS COOLER REC	EIPT FORM
Client: NV5	Element WO#: A2
Project/Project #: BCS America -1-02	
Delivery Info:	
Date/time received: 5/3//22 @ /340 By:	MIS
Delivered by: ApexClient \(\sum_{ESS} \) FedExUPS	_SwiftSenvoySDSOther
Cooler Inspection Date/time inspected: 5/31/22 @	1340 By: MO
Chain of Custody included? Yes X No Custo	ody seals? YesNo
Signed/dated by client? Yes No	
Signed/dated by Apex? Yes No	
Temperature (°C) Received on ice? (Y/N) Temp. blanks? (Y/N) Ice type: (Gel/Real/Other) Condition: Cooler out of temp? (Y/N) Possible reason why: Green dots applied to out of temperature samples? Yes No Out of temperature samples form initiated? Yes No Sample Inspection: All samples intact? Yes No Comments:	
D MOV Y	
Do VOA vials have visible headspace? Yes No NA	
Comments	e? Ves No NA
Comments:	c. 100 INA
	· · · · · · · · · · · · · · · · · · ·
Additional information:	TO THE PARTY OF TH
A CONTRACTOR OF THE CONTRACTOR	
Labeled by: Witness:	Cooler Inspected by:
b //	KAN C
	y — ·

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Merenberg

www.capefearanalytical.com



July 07, 2022

Mr. Philip Nerenberg Apex Laboratories 6700 SW Sandburg Street Portland, Oregon 97223

Re: DXN & PCB Subcontract

Work Order: 19863 SDG: A2F0009

Dear Mr. Nerenberg:

Cape Fear Analytical LLC (CFA) appreciates the opportunity to provide the enclosed analytical results for the sample(s) we received on June 03, 2022. This original data report has been prepared and reviewed in accordance with CFA's standard operating procedures.

Our policy is to provide high quality, personalized analytical services to enable you to meet your analytical needs on time every time. We trust that you will find everything in order and to your satisfaction. If you have any questions, please do not hesitate to call me at 910-795-0421.

Cyride Larkins

Cynde Larkins Project Manager

Enclosures

SUBCONTRACT ORDER

Apex Laboratories

06 61112

A2F0009

055 6/1/22

SENDING LABORATORY:

Apex Laboratories

6700 S.W. Sandburg Street

Tigard, OR 97223

Phone: (503) 718-2323 Fax: (503) 336-0745

Project Manager:

Philip Nerenberg

RECEIVING LABORATORY:

Cape Fear Analytical, LLC 3306 Kitty Hawk Rd Suite 120 Wilmington, NC 28405

Phone :(910) 795-0421

Fax: -

CFA WO#19863

Sample Name: SW-1(052822)		Water	Sampled: 05/28/22 14:57	(A2F0009-01)
Analysis	Due	Expires	Comments	
1613B Dioxins and Furans (SUB) Containers Supplied:	06/14/22 17:00	05/28/23 14:57		
(N)1 L Amber Glass - Non Preserved				
(O)1 LAmber Glass - Non Preserved				
Sample Name: SW-2(052822)		Water	Sampled: 05/28/22 15:39	(A2F0009-02)
Analysis	Due	Expires	Comments	
1613B Dioxins and Furans (SUB)	06/14/22 17:00	05/28/23 15:39		
Containers Supplied: (N)1 LAmber Glass - Non Preserved				
(O)1 L Amber Glass - Non Preserved				

temp .= 3.10c

Released By Date

Fed Ex (Shipper)

Received By

Standard TAT

Date

D. O. .

Fed Ex (Shipper)

03JUNZZ@ (013

Released By

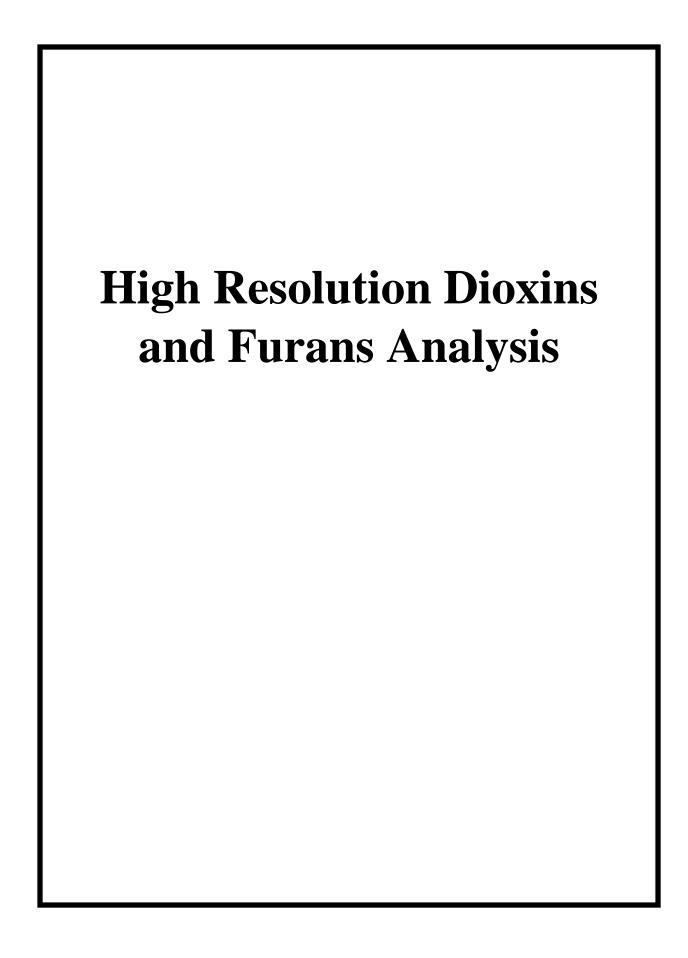
Date

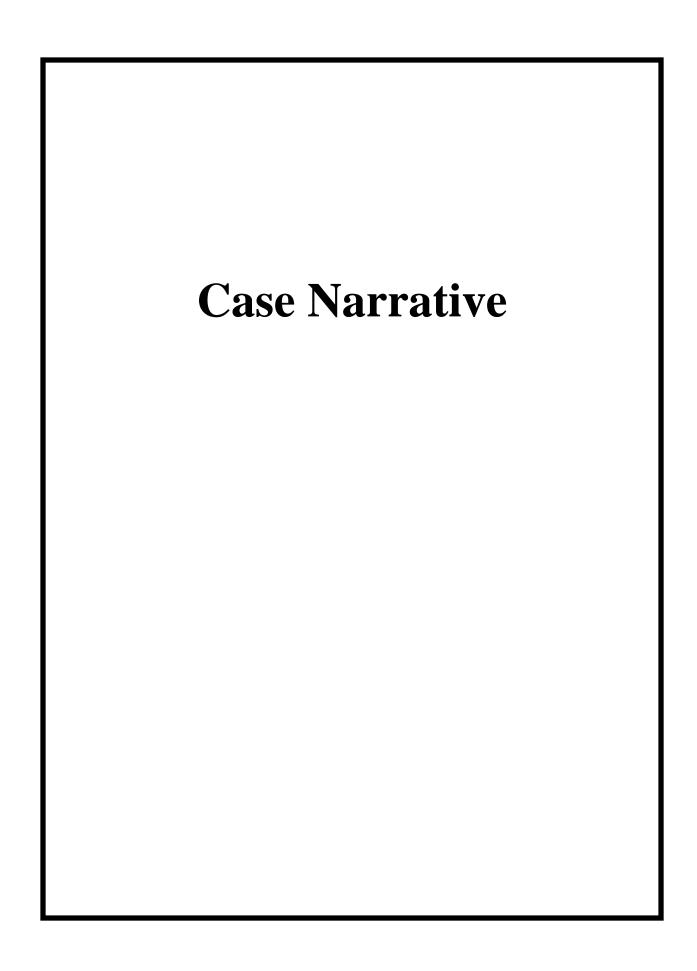
Page 1 of 1

SAMPLE RECEIPT CHECKLIST

				C	Cape Fear Analytical
Clie	7110/				Work Order: 19863
Ship	oping Company: Fedex				Date/Time Received: 03JUN22 1013
Sus	pected Hazard Information	Yes	NA	No	DOE Site Sample Packages Yes NA No*
Ship	oped as DOT Hazardous?				Screened <0.5 mR/hr?
San	nples identified as Foreign Soil?			U	Samples < 2x background?
Air	Sample Receipt Specifics	Yes	NA	No	* Notify RSO of any responses in this column immediately.
1	sample in shipment?				Air Witness:
	Sample Receipt Criteria	Yes	NA	No	Comments/Qualifiers (required for Non-Conforming Items)
1	Shipping containers received intact and sealed?	\ \	/		Circle Applicable: seals broken darnaged container leaking container other(describe)
2	Custody seal/s present on cooler?			/	Seal intact? Yes No
3	Chain of Custody documents included with shipment?	\ \			
4	Samples requiring cold preservation within 0-6°C?	/			Preservation Method: Temperature Blank present: Yes plotice bags toose ice to blue joe dry ice none other (describe) 3.0° + 0.1 = 3.1° C
5	Aqueous samples found to have visible solids?	<i>\</i>			3.0° + 0.1=3.1° C Sample IDs, containers affected: Minimal Visible Addids
5	Samples requiring chemical preservation at proper pH?		/		Sample IDs, containers affected and pH observed: PH = 8 on all If preservative added, Lot#:
7	Samples requiring preservation have no residual chlorine?	/			Sample IDs, containers affected: If preservative added, Lot#:
8	Samples received within holding time?	V			Sample IDs, tests affected:
9	Sample IDs on COC match IDs on containers?	J			Sample IDs, containers affected:
10	Date & time of COC match date & time on containers?	V			Sample IDs, containers affected:
11	Number of containers received match number indicated on COC?	V			List type and number of containers / Sample IDs, containers affected: 2-12 NMAG bottles per sample. 4 to tal
12	COC form is properly signed in relinquished/received sections?	/			
Coi	nments:				

Page 3 of 24 Work Ondersist 9866 formed by: Initials: CH Date: 03 JUN 22





HDOX Case Narrative Apex Laboratories (APEX) SDG A2F0009 Work Order 19863

Method/Analysis Information

Product: Dioxins/Furans by EPA Method 1613B in Liquids

Analytical Method: EPA Method 1613B

Extraction Method: SW846 3520C

Analytical Batch Number: 50162 Clean Up Batch Number: 50155 Extraction Batch Number: 50154

Sample Analysis

Samples were received at 3.1°C.

The following samples were analyzed using the analytical protocol as established in EPA Method 1613B:

Sample ID	Client ID
12032060	Method Blank (MB)
12032061	Laboratory Control Sample (LCS)
12032062	Laboratory Control Sample Duplicate (LCSD)
19863001	SW-1 (052822)
19863002	SW-2 (052822)

The samples in this SDG were analyzed on an "as received" basis.

SOP Reference

Procedure for preparation, analysis and reporting of analytical data are controlled by Cape Fear Analytical LLC (CFA) as Standard Operating Procedure (SOP). The data discussed in this narrative has been analyzed in accordance with CF-OA-E-002 REV# 20.

Raw data reports are processed and reviewed by the analyst using the TargetLynx software package.

Calibration Information

Initial Calibration

All initial calibration requirements have been met for this sample delivery group (SDG).

Page 6 of 24 Work Order: 19863

Continuing Calibration Verification (CCV) Requirements

All associated calibration verification standard(s) (CVS) met the acceptance criteria.

Quality Control (QC) Information

Certification Statement

The test results presented in this document are certified to meet all requirements of the 2009 TNI Standard.

Method Blank (MB) Statement

The MB(s) analyzed with this SDG met the acceptance criteria.

Surrogate Recoveries

All surrogate recoveries were within the established acceptance criteria for this SDG.

Laboratory Control Sample (LCS) Recovery

The LCS spike recoveries met the acceptance limits.

Laboratory Control Sample Duplicate (LCSD) Recovery

The LCSD spike recoveries met the acceptance limits.

LCS/LCSD Relative Percent Difference (RPD) Statement

The RPD(s) between the LCS and LCSD met the acceptance limits.

QC Sample Designation

A matrix spike and matrix spike duplicate analysis was not required for this SDG.

Technical Information

Receipt Temperature

Samples were received within temperature requirements.

Holding Time Specifications

CFA assigns holding times based on the associated methodology, which assigns the date and time from sample collection. Those holding times expressed in hours are calculated in the AlphaLIMS system. Those holding times expressed as days expire at midnight on the day of expiration. All samples in this SDG met the specified holding time.

Preparation/Analytical Method Verification

All procedures were performed as stated in the SOP.

Sample Dilutions

The samples in this SDG did not require dilutions.

Sample Re-extraction/Re-analysis

Re-extractions or re-analyses were not required in this SDG.

Page 7 of 24 Work Order: 19863

Miscellaneous Information

Manual Integrations

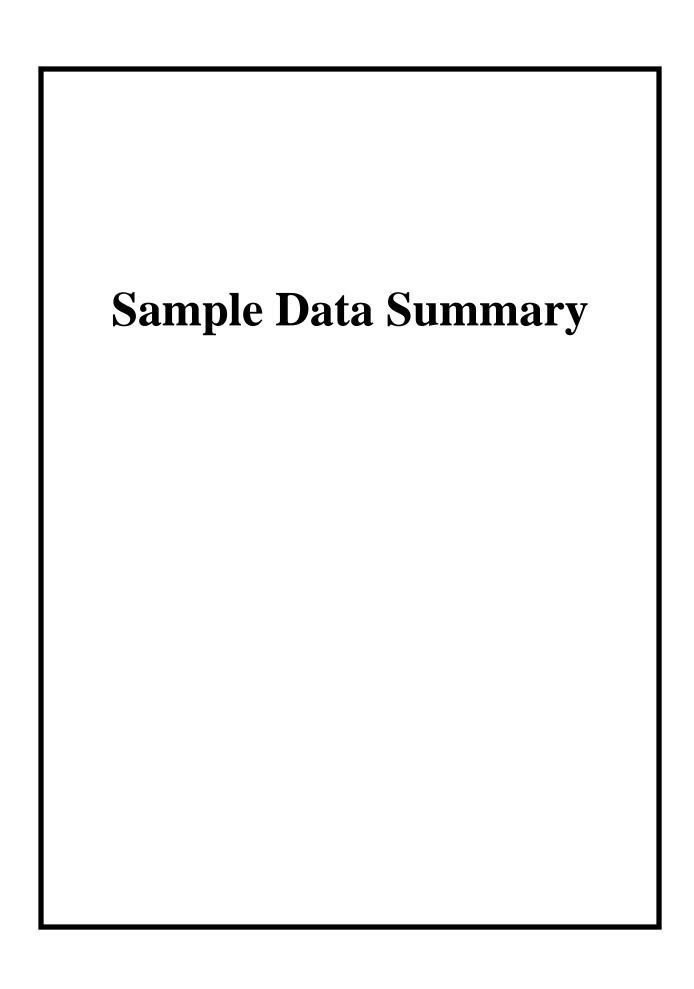
Certain standards and QC samples required manual integrations to correctly position the baseline as set in the calibration standard injections. Where manual integrations were performed, copies of all manual integration peak profiles are included in the raw data section of this fraction. Manual integrations were required for data files in this SDG.

System Configuration

This analysis was performed on the following instrument configuration:

Instrument ID	Instrument	System Configuration	Column ID	Column Description
HRP750_2	Primary Dioxin Analysis	Dioxin Analysis	DB-5MS	60m x 0.25mm, 0.25um

Page 8 of 24 Work Order: 19863



Cape Fear Analytical, LLC

3306 Kitty Hawk Road Suite 120, Wilmington, NC 28405 - (910) 795-0421 - www.capefearanalytical.com

Qualifier Definition Report for

APEX001 Apex Laboratories

Client SDG: A2F0009 CFA Work Order: 19863

The Qualifiers in this report are defined as follows:

- * A quality control analyte recovery is outside of specified acceptance criteria
- ** Analyte is a surrogate compound
- J Value is estimated
- K Estimated Maximum Possible Concentration
- U Analyte was analyzed for, but not detected above the specified detection limit.
- DL Indicates that sample is diluted.
- RA Indicates that sample is re-analyzed without re-extraction.
- RE Indicates that sample is re-extracted.

Review/Validation

Cape Fear Analytical requires all analytical data to be verified by a qualified data reviewer.

The following data validator verified the information presented in this case narrative:

Signature: Suhrie Name: Erin Suhrie

Date: 07 JUL 2022 Title: Data Validator

Page 10 of 24 Work Order: 19863

Page 1

July 7, 2022

 $\quad \text{of } 2$

Hi-Res Dioxins/Furans Certificate of Analysis

Sample Summary

Project: Matrix:

APEX00320 WATER

Client Sample:

Data File:

SDG Number:

Lab Sample ID:

19863001 1613B Water

A18JUN22A_5-6

A2F0009

Client: **Date Collected:** Date Received:

APEX001 05/28/2022 14:57 06/03/2022 10:13

Prep Basis:

As Received

Client ID: SW-1 (052822) **Batch ID:**

50162 06/20/2022 07:43 **Run Date:**

Method: EPA Method 1613B **Analyst:** CLP

Instrument: HRP750

Prep Batch: 50154 **Prep Date:** 10-JUN-22 **Prep Method:** Prep Aliquot:

SW846 3520C 1028.7 mL

Dilution: 1

rrep Date:	10-JUN-22	Trep Anquot.	1020.7 IIIL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	0.801	pg/L	0.801	9.72
40321-76-4	1,2,3,7,8-PeCDD	U	1.22	pg/L	1.22	48.6
39227-28-6	1,2,3,4,7,8-HxCDD	U	2.00	pg/L	2.00	48.6
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.80	pg/L	1.80	48.6
19408-74-3	1,2,3,7,8,9-HxCDD	U	1.91	pg/L	1.91	48.6
35822-46-9	1,2,3,4,6,7,8-HpCDD	J	20.9	pg/L	4.47	48.6
3268-87-9	1,2,3,4,6,7,8,9-OCDD		293	pg/L	8.09	97.2
51207-31-9	2,3,7,8-TCDF	U	1.10	pg/L	1.10	9.72
57117-41-6	1,2,3,7,8-PeCDF	U	1.03	pg/L	1.03	48.6
57117-31-4	2,3,4,7,8-PeCDF	U	0.933	pg/L	0.933	48.6
70648-26-9	1,2,3,4,7,8-HxCDF	U	0.960	pg/L	0.960	48.6
57117-44-9	1,2,3,6,7,8-HxCDF	U	0.945	pg/L	0.945	48.6
60851-34-5	2,3,4,6,7,8-HxCDF	U	0.976	pg/L	0.976	48.6
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.52	pg/L	1.52	48.6
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	2.61	pg/L	1.49	48.6
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.12	pg/L	2.12	48.6
39001-02-0	1,2,3,4,6,7,8,9-OCDF	J	5.25	pg/L	3.85	97.2
41903-57-5	Total TeCDD	U	0.801	pg/L	0.801	9.72
36088-22-9	Total PeCDD	U	1.22	pg/L	1.22	48.6
34465-46-8	Total HxCDD	JK	5.35	pg/L	1.80	48.6
37871-00-4	Total HpCDD	J	48.7	pg/L	4.47	48.6
30402-14-3	Total TeCDF	U	1.10	pg/L	1.10	9.72
30402-15-4	Total PeCDF	JK	0.680	pg/L	0.548	48.6
55684-94-1	Total HxCDF	JK	3.03	pg/L	0.945	48.6
38998-75-3	Total HpCDF	JK	7.02	pg/L	1.49	48.6
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		0.324	pg/L		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		2.06	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1630	1940	pg/L	83.9	(25%-164%)
13C-1,2,3,7,8-PeCDD		1640	1940	pg/L	84.3	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1470	1940	pg/L	75.5	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1660	1940	pg/L	85.6	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1560	1940	pg/L	80.2	(23%-140%)
13C-OCDD		2860	3890	pg/L	73.6	(17%-157%)
13C-2,3,7,8-TCDF		1440	1940	pg/L	74.0	(24%-169%)
13C-1,2,3,7,8-PeCDF		1510	1940	pg/L	77.9	(24%-185%)
13C-2,3,4,7,8-PeCDF		1590	1940	pg/L	81.6	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1430	1940	pg/L	73.4	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1580	1940	pg/L	81.3	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1600	1940	pg/L	82.2	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1400	1940	pg/L	72.0	(29%-147%)

Page 2

July 7, 2022

of 2

Hi-Res Dioxins/Furans Certificate of Analysis

Sample Summary

A2F0009 SDG Number: 19863001 Lab Sample ID: 1613B Water **Client Sample:**

Client: **Date Collected:** Date Received:

Method:

Analyst:

APEX001 05/28/2022 14:57 06/03/2022 10:13

EPA Method 1613B

Project: Matrix: APEX00320 WATER

Client ID:

SW-1 (052822) **Batch ID:** 50162

Run Date: 06/20/2022 07:43 Data File:

A18JUN22A_5-6 50154

Prep Method:

Prep Basis: As Received

Instrument: HRP750 Dilution: 1

Prep Batch: **Prep Date:** 10-JUN-22

Prep Aliquot:

SW846 3520C

CLP

CAS No. **Parmname** Qual Result

1028.7 mL

Units **EDL PQL**

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1380	1940	pg/L	71.1	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1470	1940	pg/L	75.7	(26%-138%)
37Cl-2,3,7,8-TCDD		216	194	pg/L	111	(35%-197%)

Comments:

Value is estimated J

Estimated Maximum Possible Concentration K

Analyte was analyzed for, but not detected above the specified detection limit.

July 7, 2022

 $\quad \text{of } 2$

Page 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A2F0009 SDG Number: 19863002 Lab Sample ID: 1613B Water **Client Sample: Client ID:**

SW-2 (052822)

50162 06/20/2022 08:33 A18JUN22A_5-7

Prep Batch: 50154 **Prep Date:** 10-JUN-22

Batch ID:

Run Date:

Data File:

APEX001 Client: **Date Collected:** Date Received:

Method:

Analyst:

Prep Method:

05/28/2022 15:39 06/03/2022 10:13

EPA Method 1613B

CLP

SW846 3520C 1029.1 mL

Prep Basis:

Project:

Matrix:

WATER

APEX00320

As Received

Instrument: HRP750 Dilution: 1

Prep Date:	10-JUN-22	Prep Aliquot:	1029.1 mL			
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.38	pg/L	1.38	9.72
40321-76-4	1,2,3,7,8-PeCDD	U	1.40	pg/L	1.40	48.6
39227-28-6	1,2,3,4,7,8-HxCDD	U	1.71	pg/L	1.71	48.6
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.47	pg/L	1.47	48.6
19408-74-3	1,2,3,7,8,9-HxCDD	U	1.60	pg/L	1.60	48.6
35822-46-9	1,2,3,4,6,7,8-HpCDD	JK	36.1	pg/L	6.72	48.6
3268-87-9	1,2,3,4,6,7,8,9-OCDD		445	pg/L	6.65	97.2
51207-31-9	2,3,7,8-TCDF	U	1.58	pg/L	1.58	9.72
57117-41-6	1,2,3,7,8-PeCDF	U	1.22	pg/L	1.22	48.6
57117-31-4	2,3,4,7,8-PeCDF	U	1.22	pg/L	1.22	48.6
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.14	pg/L	1.14	48.6
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.06	pg/L	1.06	48.6
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.09	pg/L	1.09	48.6
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.65	pg/L	1.65	48.6
67562-39-4	1,2,3,4,6,7,8-HpCDF	J	6.08	pg/L	0.993	48.6
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	1.49	pg/L	1.49	48.6
39001-02-0	1,2,3,4,6,7,8,9-OCDF	JK	10.3	pg/L	3.75	97.2
41903-57-5	Total TeCDD	U	1.38	pg/L	1.38	9.72
36088-22-9	Total PeCDD	U	1.40	pg/L	1.40	48.6
34465-46-8	Total HxCDD	JK	8.32	pg/L	1.47	48.6
37871-00-4	Total HpCDD	JK	75.9	pg/L	6.72	48.6
30402-14-3	Total TeCDF	U	1.58	pg/L	1.58	9.72
30402-15-4	Total PeCDF	JK	6.37	pg/L	0.544	48.6
55684-94-1	Total HxCDF	J	5.91	pg/L	1.06	48.6
38998-75-3	Total HpCDF	J	13.9	pg/L	0.993	48.6
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		0.559	pg/L		
3333-30-3	TEQ WHO2005 ND=0.5 with EMPCs		2.72	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
3C-2,3,7,8-TCDD		1620	1940	pg/L	83.1	(25%-164%)
3C-1,2,3,7,8-PeCDD		1650	1940	pg/L	84.9	(25%-181%)
C-1,2,3,4,7,8-HxCDD		1390	1940	pg/L	71.4	(32%-141%)
C-1,2,3,6,7,8-HxCDD		1490	1940	pg/L	76.8	(28%-130%)
C-1,2,3,4,6,7,8-HpCDD		1590	1940	pg/L	81.7	(23%-140%)
-OCDD		2800	3890	pg/L	72.0	(17%-157%)
2,3,7,8-TCDF		1440	1940	pg/L	74.4	(24%-169%)
1,2,3,7,8-PeCDF		1510	1940	pg/L	77.7	(24%-185%)
2,3,4,7,8-PeCDF		1530	1940	pg/L	78.5	(21%-178%)
1,2,3,4,7,8-HxCDF		1280	1940	pg/L	65.9	(26%-152%)
,2,3,6,7,8-HxCDF		1400	1940	pg/L	71.9	(26%-123%)
2,3,4,6,7,8-HxCDF		1440	1940	pg/L	74.2	(28%-136%)
1,2,3,7,8,9-HxCDF		1430	1940	pg/L	73.7	(29%-147%)

Page 2

July 7, 2022

of 2

Hi-Res Dioxins/Furans Certificate of Analysis

Sample Summary

CLP

SDG Number: A2F0009 Lab Sample ID: 19863002 Client Sample: 1613B Water Client:
Date Collected:
Date Received:

APEX001 05/28/2022 15:39 06/03/2022 10:13 Project: Matrix: APEX00320 WATER

Client Sample: 16131 Client ID: SW-2

SW-2 (052822)

50162 06/20/2022 08:33 Method: Analyst:

Qual

EPA Method 1613B

Prep Basis:

As Received

Run Date: Data File: Prep Batch:

A18JUN22A_5-7 50154

Prep Method: SW

Instrument: Dilution:

HRP750 1

Prep Date: CAS No.

Batch ID:

10-JUN-22 Parmname Prep Aliquot: 10

SW846 3520C 1029.1 mL

Units EDL PQL

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1380	1940	pg/L	70.8	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1470	1940	pg/L	75.8	(26%-138%)
37Cl-2,3,7,8-TCDD		209	194	pg/L	108	(35%-197%)

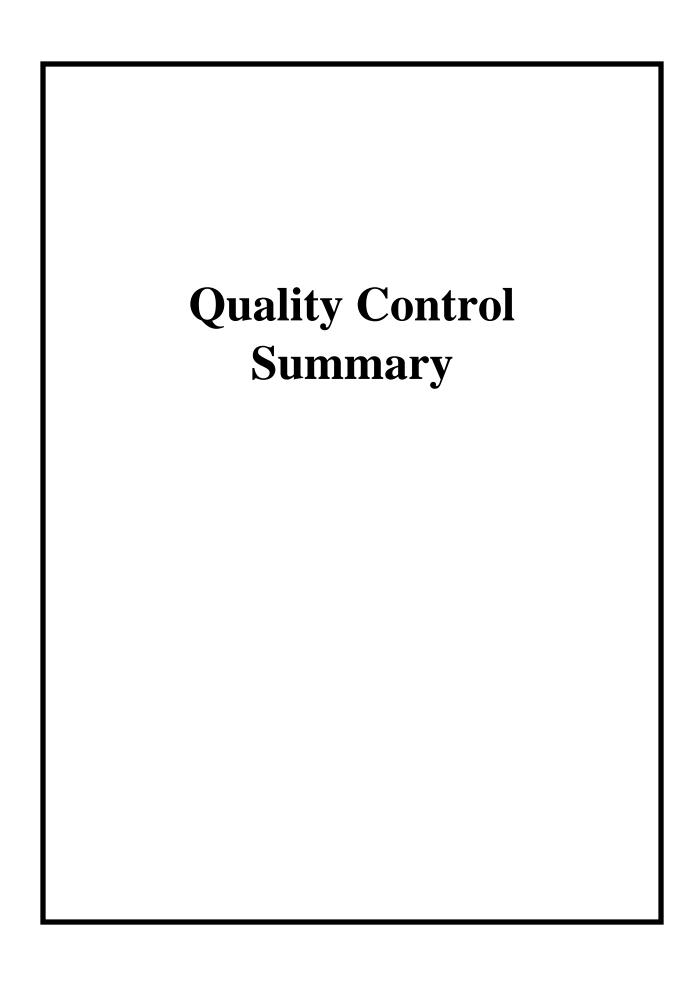
Result

Comments:

J Value is estimated

K Estimated Maximum Possible Concentration

U Analyte was analyzed for, but not detected above the specified detection limit.



Report Date: July 7, 2022

Page 1 of

of 2

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A2F0009 Matrix Type: LIQUID

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
2032061	LCS for batch 50154	13C-2,3,7,8-TCDD		73.1	(20%-175%)
		13C-1,2,3,7,8-PeCDD		75.9	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		60.1	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		68.8	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		71.4	(22%-166%)
		13C-OCDD		67.5	(13%-199%)
		13C-2,3,7,8-TCDF		65.4	(22%-152%)
		13C-1,2,3,7,8-PeCDF		69.4	(21%-192%)
		13C-2,3,4,7,8-PeCDF		69.2	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		56.5	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		64.0	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		64.2	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		62.8	(17%-205%)
		13C-1,2,3,4,6,7,8-HpCDF		61.4	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF		64.3	(20%-186%)
		37Cl-2,3,7,8-TCDD		111	(31%-191%)
2032062	LCSD for batch 50154	13C-2,3,7,8-TCDD		83.4	(20%-175%)
		13C-1,2,3,7,8-PeCDD		86.0	(21%-227%)
		13C-1,2,3,4,7,8-HxCDD		70.2	(21%-193%)
		13C-1,2,3,6,7,8-HxCDD		76.1	(25%-163%)
		13C-1,2,3,4,6,7,8-HpCDD		80.8	(22%-166%)
		13C-OCDD		79.2	(13%-199%)
		13C-2,3,7,8-TCDF		71.0	(22%-152%)
		13C-1,2,3,7,8-PeCDF		75.9	(21%-192%)
		13C-2,3,4,7,8-PeCDF		80.8	(13%-328%)
		13C-1,2,3,4,7,8-HxCDF		64.8	(19%-202%)
		13C-1,2,3,6,7,8-HxCDF		71.5	(21%-159%)
		13C-2,3,4,6,7,8-HxCDF		72.9	(22%-176%)
		13C-1,2,3,7,8,9-HxCDF		72.5	(17%-205%)
				71.3	,
		13C-1,2,3,4,6,7,8-HpCDF		76.4	(21%-158%)
		13C-1,2,3,4,7,8,9-HpCDF			(20%-186%)
		37C1-2,3,7,8-TCDD		110	(31%-191%)
032060	MB for batch 50154	13C-2,3,7,8-TCDD		84.3	(25%-164%)
		13C-1,2,3,7,8-PeCDD		84.6	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		66.0	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		76.2	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		80.0	(23%-140%)
		13C-OCDD		79.1	(17%-157%)
		13C-2,3,7,8-TCDF		73.9	(24%-169%)
		13C-1,2,3,7,8-PeCDF		77.6	(24%-185%)
		13C-2,3,4,7,8-PeCDF		80.5	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		62.1	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		69.9	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		71.1	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		71.4	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		70.8	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		72.3	(26%-138%)
		37C1-2,3,7,8-TCDD		108	(35%-197%)
	SW-1 (052822)	13C-2,3,7,8-TCDD		83.9	(25%-164%)

Report Date: July 7, 2022 Page 2

of 2

Hi-Res Dioxins/Furans Surrogate Recovery Report

SDG Number: A2F0009 **Matrix Type: LIQUID**

Sample ID	Client ID	Surrogate	QUAL	Recovery (%)	Acceptance Limits
9863001	SW-1 (052822)	13C-1,2,3,7,8-PeCDD		84.3	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		75.5	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		85.6	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		80.2	(23%-140%)
		13C-OCDD		73.6	(17%-157%)
		13C-2,3,7,8-TCDF		74.0	(24%-169%)
		13C-1,2,3,7,8-PeCDF		77.9	(24%-185%)
		13C-2,3,4,7,8-PeCDF		81.6	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		73.4	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		81.3	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		82.2	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		72.0	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		71.1	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		75.7	(26%-138%)
		37Cl-2,3,7,8-TCDD		111	(35%-197%)
9863002	SW-2 (052822)	13C-2,3,7,8-TCDD		83.1	(25%-164%)
		13C-1,2,3,7,8-PeCDD		84.9	(25%-181%)
		13C-1,2,3,4,7,8-HxCDD		71.4	(32%-141%)
		13C-1,2,3,6,7,8-HxCDD		76.8	(28%-130%)
		13C-1,2,3,4,6,7,8-HpCDD		81.7	(23%-140%)
		13C-OCDD		72.0	(17%-157%)
		13C-2,3,7,8-TCDF		74.4	(24%-169%)
		13C-1,2,3,7,8-PeCDF		77.7	(24%-185%)
		13C-2,3,4,7,8-PeCDF		78.5	(21%-178%)
		13C-1,2,3,4,7,8-HxCDF		65.9	(26%-152%)
		13C-1,2,3,6,7,8-HxCDF		71.9	(26%-123%)
		13C-2,3,4,6,7,8-HxCDF		74.2	(28%-136%)
		13C-1,2,3,7,8,9-HxCDF		73.7	(29%-147%)
		13C-1,2,3,4,6,7,8-HpCDF		70.8	(28%-143%)
		13C-1,2,3,4,7,8,9-HpCDF		75.8	(26%-138%)
		37C1-2,3,7,8-TCDD		108	(35%-197%)

^{*} Recovery outside Acceptance Limits # Column to be used to flag recovery values

D Sample Diluted

of 2

Hi-Res Dioxins/Furans Quality Control Summary

Spike Recovery Report

Matrix:

SDG Number: A2F0009

Sample Type: Laboratory Control Sample

Client ID: LCS for batch 50154

WATER

Analysis Date: 06/19/2022 15:48

Lab Sample ID: 12032061

Instrument:

12032061 HRP750

Analyst: CLP

Prep Batch ID:50154

Dilution: 1

Page 1

Batch ID: 50162

			Amount Added	Spike Conc.	Recovery	Acceptance
CAS No.		Parmname	pg/L	pg/L	%	Limits
1746-01-6	LCS	2,3,7,8-TCDD	200	186	93.2	67-158
40321-76-4	LCS	1,2,3,7,8-PeCDD	1000	1010	101	70-142
39227-28-6	LCS	1,2,3,4,7,8-HxCDD	1000	1040	104	70-164
57653-85-7	LCS	1,2,3,6,7,8-HxCDD	1000	1050	105	76-134
19408-74-3	LCS	1,2,3,7,8,9-HxCDD	1000	1140	114	64-162
5822-46-9	LCS	1,2,3,4,6,7,8-HpCDD	1000	1030	103	70-140
268-87-9	LCS	1,2,3,4,6,7,8,9-OCDD	2000	2080	104	78-144
207-31-9	LCS	2,3,7,8-TCDF	200	214	107	75-158
117-41-6	LCS	1,2,3,7,8-PeCDF	1000	1020	102	80-134
7117-31-4	LCS	2,3,4,7,8-PeCDF	1000	1050	105	68-160
0648-26-9	LCS	1,2,3,4,7,8-HxCDF	1000	1010	101	72-134
57117-44-9	LCS	1,2,3,6,7,8-HxCDF	1000	1030	103	84-130
50851-34-5	LCS	2,3,4,6,7,8-HxCDF	1000	1010	101	70-156
2918-21-9	LCS	1,2,3,7,8,9-HxCDF	1000	1070	107	78-130
7562-39-4	LCS	1,2,3,4,6,7,8-HpCDF	1000	990	99	82-122
55673-89-7	LCS	1,2,3,4,7,8,9-HpCDF	1000	1040	104	78-138
39001-02-0	LCS	1,2,3,4,6,7,8,9-OCDF	2000	2100	105	63-170

Page 2

July 7, 2022

of 2

Hi-Res Dioxins/Furans

Quality Control Summary Spike Recovery Report

SDG Number: A2F0009 Samp

Sample Type: Laboratory Control Sample Duplicate

LCSD for batch 50154 Matrix: WATER

Lab Sample ID: 12032062

Client ID:

Instrument: HRP750 Analysis Date: 06/19/2022 16:37 Dilution: 1

Analyst: CLP Prep Batch ID:50154

Batch ID: 50162

			Amount Added	Spike Conc.	Pacayary	Acceptance	DDD	Acceptance
CAS No.		Parmname	pg/L	pg/L	%	Limits	KFD %	Limits
1746-01-6	LCSD	2,3,7,8-TCDD	200	166	83.2	67-158	11.2	0-20
40321-76-4	LCSD	1,2,3,7,8-PeCDD	1000	902	90.2	70-142	11.0	0-20
39227-28-6	LCSD	1,2,3,4,7,8-HxCDD	1000	924	92.4	70-164	12.1	0-20
57653-85-7	LCSD	1,2,3,6,7,8-HxCDD	1000	937	93.7	76-134	11.5	0-20
19408-74-3	LCSD	1,2,3,7,8,9-HxCDD	1000	1030	103	64-162	9.99	0-20
35822-46-9	LCSD	1,2,3,4,6,7,8-HpCDD	1000	908	90.8	70-140	12.1	0-20
3268-87-9	LCSD	1,2,3,4,6,7,8,9-OCDD	2000	1810	90.3	78-144	14.3	0-20
51207-31-9	LCSD	2,3,7,8-TCDF	200	196	97.9	75-158	8.94	0-20
57117-41-6	LCSD	1,2,3,7,8-PeCDF	1000	923	92.3	80-134	9.67	0-20
57117-31-4	LCSD	2,3,4,7,8-PeCDF	1000	877	87.7	68-160	18.3	0-20
70648-26-9	LCSD	1,2,3,4,7,8-HxCDF	1000	901	90.1	72-134	11.8	0-20
57117-44-9	LCSD	1,2,3,6,7,8-HxCDF	1000	904	90.4	84-130	13.0	0-20
60851-34-5	LCSD	2,3,4,6,7,8-HxCDF	1000	905	90.5	70-156	11.2	0-20
72918-21-9	LCSD	1,2,3,7,8,9-HxCDF	1000	920	92	78-130	14.9	0-20
67562-39-4	LCSD	1,2,3,4,6,7,8-HpCDF	1000	839	83.9	82-122	16.5	0-20
55673-89-7	LCSD	1,2,3,4,7,8,9-HpCDF	1000	871	87.1	78-138	17.3	0-20
39001-02-0	LCSD	1,2,3,4,6,7,8,9-OCDF	2000	1780	89.2	63-170	16.5	0-20

July 7, 2022

Method Blank Summary

Page 1

of 1

A2F0009 SDG Number: **Client ID:**

MB for batch 50154

Client:

APEX001 Instrument ID: HRP750

Matrix:

WATER

Data File: A18JUN22A_4-3

Column:

Lab Sample ID: 12032060

Prep Date: 10-JUN-22 Analyzed: 06/19/22 17:27

This method blank applies to the following samples and quality control samples:

Client Sample ID	Lab Sample ID	File ID	Date Analyzed	Time Analyzed	
01 LCS for batch 50154	12032061	A18JUN22A_4-1	06/19/22	1548	
02 LCSD for batch 50154	12032062	A18JUN22A_4-2	06/19/22	1637	
03 SW-1 (052822)	19863001	A18JUN22A_5-6	06/20/22	0743	
04 SW-2 (052822)	19863002	A18JUN22A_5-7	06/20/22	0833	

Page 1

July 7, 2022

of 2

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

CLP

A2F0009 SDG Number: Lab Sample ID:

12032060

QC for batch 50154 MB for batch 50154

TEQ WHO2005 ND=0.5 with EMPCs

3333-30-3

Batch ID: 50162 **Run Date:**

Client Sample: Client ID:

06/19/2022 17:27 A18JUN22A_4-3 Data File:

Prep Batch: Prep Date:

Client:

Method:

Analyst:

APEX001

EPA Method 1613B

Project: Matrix: APEX00320 WATER

Prep Basis:

As Received

Instrument: Dilution:

HRP750 1

SW846 3520C **Prep Method:** 50154 Prep Aliquot: $1000 \ mL$ 10-JUN-22

-						
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD	U	1.33	pg/L	1.33	10.0
40321-76-4	1,2,3,7,8-PeCDD	U	1.14	pg/L	1.14	50.0
39227-28-6	1,2,3,4,7,8-HxCDD	U	1.32	pg/L	1.32	50.0
57653-85-7	1,2,3,6,7,8-HxCDD	U	1.25	pg/L	1.25	50.0
19408-74-3	1,2,3,7,8,9-HxCDD	U	1.30	pg/L	1.30	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD	U	2.22	pg/L	2.22	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD	U	2.56	pg/L	2.56	100
51207-31-9	2,3,7,8-TCDF	U	1.66	pg/L	1.66	10.0
57117-41-6	1,2,3,7,8-PeCDF	U	1.23	pg/L	1.23	50.0
57117-31-4	2,3,4,7,8-PeCDF	U	1.03	pg/L	1.03	50.0
70648-26-9	1,2,3,4,7,8-HxCDF	U	1.35	pg/L	1.35	50.0
57117-44-9	1,2,3,6,7,8-HxCDF	U	1.33	pg/L	1.33	50.0
60851-34-5	2,3,4,6,7,8-HxCDF	U	1.26	pg/L	1.26	50.0
72918-21-9	1,2,3,7,8,9-HxCDF	U	1.90	pg/L	1.90	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF	U	1.43	pg/L	1.43	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF	U	2.08	pg/L	2.08	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF	U	2.86	pg/L	2.86	100
41903-57-5	Total TeCDD	U	1.33	pg/L	1.33	10.0
36088-22-9	Total PeCDD	U	1.14	pg/L	1.14	50.0
34465-46-8	Total HxCDD	U	1.25	pg/L	1.25	50.0
37871-00-4	Total HpCDD	U	2.22	pg/L	2.22	50.0
30402-14-3	Total TeCDF	U	1.66	pg/L	1.66	10.0
30402-15-4	Total PeCDF	U	0.716	pg/L	0.716	50.0
55684-94-1	Total HxCDF	U	1.26	pg/L	1.26	50.0
38998-75-3	Total HpCDF	U	1.43	pg/L	1.43	50.0
3333-30-2	TEQ WHO2005 ND=0 with EMPCs		0.000	pg/L		

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1690	2000	pg/L	84.3	(25%-164%)
13C-1,2,3,7,8-PeCDD		1690	2000	pg/L	84.6	(25%-181%)
13C-1,2,3,4,7,8-HxCDD		1320	2000	pg/L	66.0	(32%-141%)
13C-1,2,3,6,7,8-HxCDD		1520	2000	pg/L	76.2	(28%-130%)
13C-1,2,3,4,6,7,8-HpCDD		1600	2000	pg/L	80.0	(23%-140%)
13C-OCDD		3160	4000	pg/L	79.1	(17%-157%)
13C-2,3,7,8-TCDF		1480	2000	pg/L	73.9	(24%-169%)
13C-1,2,3,7,8-PeCDF		1550	2000	pg/L	77.6	(24%-185%)
13C-2,3,4,7,8-PeCDF		1610	2000	pg/L	80.5	(21%-178%)
13C-1,2,3,4,7,8-HxCDF		1240	2000	pg/L	62.1	(26%-152%)
13C-1,2,3,6,7,8-HxCDF		1400	2000	pg/L	69.9	(26%-123%)
13C-2,3,4,6,7,8-HxCDF		1420	2000	pg/L	71.1	(28%-136%)
13C-1,2,3,7,8,9-HxCDF		1430	2000	pg/L	71.4	(29%-147%)

2.01

pg/L

Page 2

July 7, 2022

of 2

Hi-Res Dioxins/Furans Certificate of Analysis

Sample Summary

CLP

EPA Method 1613B

A2F0009 SDG Number: Lab Sample ID:

12032060

QC for batch 50154

MB for batch 50154 **Client ID: Batch ID:** 50162

Client Sample:

06/19/2022 17:27 **Run Date:** A18JUN22A_4-3

Data File: 50154 Prep Batch:

Client: APEX001

Project:

Matrix:

APEX00320

WATER

Prep Basis:

As Received

Instrument:

HRP750

Dilution:

1

Prep Date: 10-JUN-22

SW846 3520C **Prep Method: Prep Aliquot:** $1000 \ mL$

Method:

Analyst:

CAS No. **Parmname**

Qual Result

EDL PQL Units

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-1,2,3,4,6,7,8-HpCDF		1420	2000	pg/L	70.8	(28%-143%)
13C-1,2,3,4,7,8,9-HpCDF		1450	2000	pg/L	72.3	(26%-138%)
37Cl-2,3,7,8-TCDD		215	200	pg/L	108	(35%-197%)

Comments:

Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

July 7, 2022

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A2F0009 Client: APEX001 SDG Number: 12032061 Lab Sample ID:

Project: Matrix:

Prep Basis:

APEX00320 WATER

QC for batch 50154 **Client Sample:**

Client ID: LCS for batch 50154 **Batch ID:**

50162

Method: EPA Method 1613B **Analyst:** CLP

As Received

06/19/2022 15:48 **Run Date:** Data File: A18JUN22A_4-1

Instrument: HRP750 Dilution: 1

50154 Prep Batch: **Prep Date:** 10-JUN-22

SW846 3520C **Prep Method:** Prep Aliquot: $1000 \ mL$

rrep Date.	10 0011 22					
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		186	pg/L	2.42	10.0
40321-76-4	1,2,3,7,8-PeCDD		1010	pg/L	5.04	50.0
39227-28-6	1,2,3,4,7,8-HxCDD		1040	pg/L	7.02	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		1050	pg/L	6.80	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1140	pg/L	7.00	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		1030	pg/L	12.5	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		2080	pg/L	17.0	100
51207-31-9	2,3,7,8-TCDF		214	pg/L	3.42	10.0
57117-41-6	1,2,3,7,8-PeCDF		1020	pg/L	6.18	50.0
57117-31-4	2,3,4,7,8-PeCDF		1050	pg/L	5.84	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		1010	pg/L	9.48	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		1030	pg/L	9.24	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		1010	pg/L	9.94	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		1070	pg/L	14.8	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		990	pg/L	9.22	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		1040	pg/L	14.9	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		2100	pg/L	17.2	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1460	2000	pg/L	73.1	(20%-175%)
13C-1,2,3,7,8-PeCDD		1520	2000	pg/L	75.9	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1200	2000	pg/L	60.1	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1380	2000	pg/L	68.8	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1430	2000	pg/L	71.4	(22%-166%)
13C-OCDD		2700	4000	pg/L	67.5	(13%-199%)
13C-2,3,7,8-TCDF		1310	2000	pg/L	65.4	(22%-152%)
13C-1,2,3,7,8-PeCDF		1390	2000	pg/L	69.4	(21%-192%)
13C-2,3,4,7,8-PeCDF		1380	2000	pg/L	69.2	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1130	2000	pg/L	56.5	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1280	2000	pg/L	64.0	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1280	2000	pg/L	64.2	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1260	2000	pg/L	62.8	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1230	2000	pg/L	61.4	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1290	2000	pg/L	64.3	(20%-186%)
37Cl-2,3,7,8-TCDD		222	200	pg/L	111	(31%-191%)

Comments:

Analyte was analyzed for, but not detected above the specified detection limit.

Page 1

July 7, 2022

of 1

Hi-Res Dioxins/Furans Certificate of Analysis Sample Summary

A2F0009 Client: SDG Number: 12032062 Lab Sample ID:

APEX001

Project:

APEX00320 WATER

Client Sample:

QC for batch 50154

Matrix:

Client ID:

LCSD for batch 50154

Method: EPA Method 1613B **Prep Basis:**

As Received

Batch ID: Run Date:

Prep Date:

50162 06/19/2022 16:37

Analyst:

CLP

Instrument: Dilution:

HRP750 1

Data File: Prep Batch:

A18JUN22A_4-2 50154 10-JUN-22

Prep Method: Prep Aliquot:

SW846 3520C $1000 \ mL$

•						
CAS No.	Parmname	Qual	Result	Units	EDL	PQL
1746-01-6	2,3,7,8-TCDD		166	pg/L	2.16	10.0
40321-76-4	1,2,3,7,8-PeCDD		902	pg/L	4.74	50.0
39227-28-6	1,2,3,4,7,8-HxCDD		924	pg/L	7.48	50.0
57653-85-7	1,2,3,6,7,8-HxCDD		937	pg/L	7.34	50.0
19408-74-3	1,2,3,7,8,9-HxCDD		1030	pg/L	7.52	50.0
35822-46-9	1,2,3,4,6,7,8-HpCDD		908	pg/L	9.34	50.0
3268-87-9	1,2,3,4,6,7,8,9-OCDD		1810	pg/L	16.8	100
51207-31-9	2,3,7,8-TCDF		196	pg/L	3.28	10.0
57117-41-6	1,2,3,7,8-PeCDF		923	pg/L	5.36	50.0
57117-31-4	2,3,4,7,8-PeCDF		877	pg/L	5.06	50.0
70648-26-9	1,2,3,4,7,8-HxCDF		901	pg/L	8.34	50.0
57117-44-9	1,2,3,6,7,8-HxCDF		904	pg/L	7.98	50.0
60851-34-5	2,3,4,6,7,8-HxCDF		905	pg/L	7.54	50.0
72918-21-9	1,2,3,7,8,9-HxCDF		920	pg/L	12.0	50.0
67562-39-4	1,2,3,4,6,7,8-HpCDF		839	pg/L	7.36	50.0
55673-89-7	1,2,3,4,7,8,9-HpCDF		871	pg/L	11.6	50.0
39001-02-0	1,2,3,4,6,7,8,9-OCDF		1780	pg/L	16.7	100

Surrogate/Tracer recovery	Qual	Result	Nominal	Units	Recovery%	Acceptable Limits
13C-2,3,7,8-TCDD		1670	2000	pg/L	83.4	(20%-175%)
13C-1,2,3,7,8-PeCDD		1720	2000	pg/L	86.0	(21%-227%)
13C-1,2,3,4,7,8-HxCDD		1400	2000	pg/L	70.2	(21%-193%)
13C-1,2,3,6,7,8-HxCDD		1520	2000	pg/L	76.1	(25%-163%)
13C-1,2,3,4,6,7,8-HpCDD		1620	2000	pg/L	80.8	(22%-166%)
13C-OCDD		3170	4000	pg/L	79.2	(13%-199%)
13C-2,3,7,8-TCDF		1420	2000	pg/L	71.0	(22%-152%)
13C-1,2,3,7,8-PeCDF		1520	2000	pg/L	75.9	(21%-192%)
13C-2,3,4,7,8-PeCDF		1620	2000	pg/L	80.8	(13%-328%)
13C-1,2,3,4,7,8-HxCDF		1300	2000	pg/L	64.8	(19%-202%)
13C-1,2,3,6,7,8-HxCDF		1430	2000	pg/L	71.5	(21%-159%)
13C-2,3,4,6,7,8-HxCDF		1460	2000	pg/L	72.9	(22%-176%)
13C-1,2,3,7,8,9-HxCDF		1450	2000	pg/L	72.5	(17%-205%)
13C-1,2,3,4,6,7,8-HpCDF		1430	2000	pg/L	71.3	(21%-158%)
13C-1,2,3,4,7,8,9-HpCDF		1530	2000	pg/L	76.4	(20%-186%)
37Cl-2,3,7,8-TCDD		220	200	pg/L	110	(31%-191%)

Comments:

Analyte was analyzed for, but not detected above the specified detection limit.

